

Exhibit I



CipherBlade

Blockchain Investigation Agency

PRELIMINARY EXPERT REPORT

Matter: Mark Cassidy and all others similarly situated v.
Voyager Digital LTD and Voyager Digital LLC

Date: 20211219

This **Preliminary Expert's Report** has been prepared in connection with the matter of *CASSIDY -v- VOYAGER*. It is not intended, and should not be used, for any other purpose. Any opinions expressed by the author herein are presented for this purpose alone, and may be subject to modification or deletion in the light of further information and investigation. These opinions are based solely on reviews of people, documentation, systems and other information as supplied or made available to CipherBlade.

THIS IS A PRELIMINARY REPORT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

I. BACKGROUND AND EXPERIENCE

1. My name is Richard A. Sanders. I am a Co-Founder and Lead Investigator of CipherBlade, a blockchain forensics and cybercrime investigative firm which consults on some of the most renowned blockchain projects, as well as numerous law enforcement and regulatory investigations, and provides advisory services to cryptocurrency exchanges and other organizations. Prior to co-founding CipherBlade, I was in the United States Army, where I attained the rank of a Staff Sergeant and spent 12 years as a forward observer and PSYOP specialist. A copy of my C.V. is annexed as Exhibit A.
2. CipherBlade and the CipherBlade staff have experience in some of the most well-known cryptocurrency investigations, including hacks of prominent individuals and major cryptocurrency exchanges, and provide services which include blockchain forensics, cryptocurrency AML, and cryptocurrency cybercrime investigation. As the blockchain industry gradually matures, there has been a notable increase in our preventative services (compared to reactionary scam/hack investigations) from, for example, investors and firms desiring diligence on blockchain startups.
3. In addition to my duties with CipherBlade, I serve as a volunteer with Crypto Defenders Alliance¹ (“CDA”) where I was selected as one of their four administrators due to my demonstrated expertise as a blockchain forensics expert, cybercrime investigation knowledge, and leadership. CDA is an organization with representatives from nearly all major cryptocurrency exchanges and services, with the purpose of combating laundering of illicitly obtained funds.
4. I have provided solvency, security and AML consulting for cryptocurrency exchanges. My firm is one of the only firms that provides such services. Some of the top exchanges in the industry, such as Coinbase, request my insight into highly complex issues that require niche expertise and experience. Exchanges have relied and continue to rely on CipherBlade’s and my expertise.² In the course of my experience with exchanges, I have become familiar with what industry norms are risk representations, solvency, and transparency.
5. I also serve as a volunteer with the Anti-Human Trafficking Intelligence Initiative³ (ATII) where I provide critically needed blockchain analysis and other insight in some of the most severe crime typologies.

¹ <https://cryptodefendersalliance.com/>

² <https://bitbuy.ca/assets/documents/Bitbuy-Proof-of-Reserve-and-Security-Audit-Report.pdf>

³ <https://followmoneyfightslavery.org/>

6. I routinely consult with and am retained by government agencies for investigations and insight on regulatory issues. I have provided security and compliance advice to numerous companies in the space, and understand that I am seen as a top thought leader in this field. I provide training to law enforcement on tactical site exploitation cryptocurrency considerations, such as identifying what cryptocurrency-related paraphernalia looks like and why it is important. I routinely provide insight to organizations such as the SEC, CFTC, and FinCEN on issues related to digital assets. My experience is digital and operational. This precise hybrid of experience is extremely valuable for my niche. United States Attorneys have leaned on my support for proffer sessions involving digital assets and described my work as essential. I have served as an expert for both Plaintiffs and Defendants in both Civil and Criminal courts and arbitrations.
7. As a result of my involvement in a significant quantity of investigations involving individuals or companies suspected of providing misleading or incorrect information, I have become known as a subject matter expert in strategies that potentially dishonest parties may demonstrate. These often include downplay or nondisclosure of risk, deliberately misleading phrasing, and non-transparency on issues that are readily made transparent via the utilization of blockchain technology.
8. I have been asked to partake in a multitude of podcasts, other speaking engagements, and press interviews from topics ranging from insolvent/AML-lacking exchanges to cryptocurrency security/thefts, including the topic of aggressively-promoted platforms that are not transparent regarding risk⁴ and how to prevent cryptocurrency losses⁵.

II. ASSIGNMENT AND SUBSTANTIATING RECORDS

9. I have been asked by The Moskowitz Law Firm, PLLC on behalf of Plaintiffs to perform an analysis of Voyager, including but not limited to the following:
 - a. An analysis of Voyager trades, relative to other cryptocurrency exchanges, in order to determine how trades executed on Voyager compare to trades executed on other platforms.
 - b. A review of publicly available information regarding Voyager, such as content from Voyager's website and social media platforms.

⁴ <https://youtu.be/0HHZnFBTESw>

⁵ <https://unchainedpodcast.com/how-to-keep-your-crypto-from-being-stolen-via-your-phone/>

- c. Whether or not the activity (with an emphasis on use of customer deposits) or risk represented by Voyager regarding same is proportionate to what would be reasonably expected.

10. In order to execute this assignment, I reviewed relevant documentation, which includes a Complaint and my Letter of Instruction⁶.

III. BACKGROUND ON CRYPTOCURRENCY AND FUNDAMENTAL TECHNICAL INFORMATION

Cryptocurrency and Blockchains

11. Cryptocurrencies are digital representations of value that are secured through cryptography – the encryption and decryption of messages in secret code or cipher. Many of them rely on blockchain technology—a distributed ledger of all transactions that is decentralized and unable to be changed under most circumstances. The most well-known form of cryptocurrency is Bitcoin, but there are a number of cryptocurrencies that have been introduced in the past several years, more than 2,000 by some counts. Cryptocurrency is sent and received from or to so-called “wallets,” which are locations identified by a combination of letters and numbers called a “hash” (e.g., 17XiVVooLcdCUCMf9s4t4jTExacxwFS5uh) that is unique to the holder of the “key” for that wallet address. Wallets are roughly analogous to an email address or bank account. They are a unique and secure identifier that allows for the transmission of cryptocurrency from one user to another.

12. Bitcoins are completely fungible and are not serialized or labeled like, for example, individual dollar bills. As a result, it is not possible to state that any particular Bitcoin is the subject of any specific transaction at any specific time. Instead, a Bitcoin transaction is best understood as a unit of value being transferred from one wallet to another. The blockchain is the record of all such transactions over time. For that reason, as explained more below, to “follow the money” one has to follow the value

⁶ See: Exhibit B - Letter of Instruction

being transmitted from wallet to wallet, rather than attempting to focus on any “specific” Bitcoin.

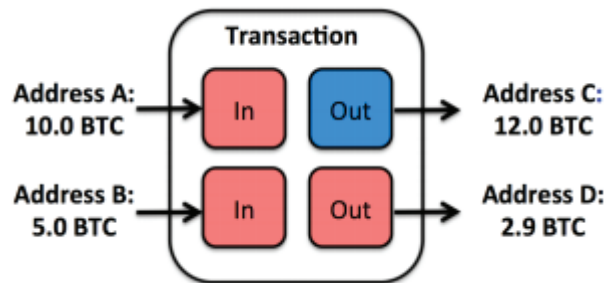
Blockchain Analysis

13. With the rise in popularity of cryptocurrencies, there have inevitably been a number of misuses of cryptocurrency, much of which is via fraud, misappropriation, or laundering. Indeed, as noted above, I and my firm CipherBlade have been retained by private parties and government authorities to assist and investigate in the aftermath of many of these hacks and thefts.
14. Blockchain analysis is a subject which requires highly specialized expertise and tools to perform accurately and effectively. While blockchain data itself is a public record and that data (which is the basis for the blockchain analysis) can be verified by anyone with free and available tools, performing an analysis of transactional flows and tracing destinations of assets is a matter that requires sophisticated tools, and most importantly, experience. In adherence with expert norms, this report identifies the tools and data relevant for the foundation of my opinion, however, it is critical to note that it would be impractical to write out every step of such an analysis, as this would include thousands of potential transactions.
15. Blockchain analysis entails taking information from an immutable public ledger, which, when reviewed by a qualified expert, enables that expert to provide what are in essence fact-based findings which can then be used subsequently, for example in litigation.
16. The process of analysis utilized in this report (especially the blockchain analysis) is the same process utilized in similar investigations that I have conducted in partnership with compliance teams, regulators, and others, spanning numerous jurisdictions. I have been the sole expert responsible for reviewing the blockchain data (which is a matter of public record and is the basis for my analysis) and the graphs in Chainalysis Reactor. Nobody else can access this account, but it is possible to export this graph much like it is possible to export, for example, a PowerPoint presentation. If another

expert wished to review my work, they could do so via utilizing the same blockchain data made available to me to generate this graph, or if they have Chainalysis Reactor access, they may contact me for a copy of the native file.

17. I have carried out a proportionate initial assessment of the relevant blockchain data. The nature of blockchain analysis particularly in a case of this nature where the objective is to obtain high-level overview of what happens to customer assets (as opposed to, for example, sorting through thousands of transactions in order to trace specific stolen assets) is relatively lower in time, and bearing in mind these are early-stage findings, as well as that further records could be produced, further analysis is possible and I reserve the right to update this report accordingly.
18. I set out below some remarks on the material that I have relied upon in forming my analysis:
 - a. The nature of blockchain transactions means that all of this information is in the public domain and can be accessed via free tools known as block explorers. For example, to review a Bitcoin transaction, one only needs to visit a website such as Blockchain.info and paste in the Bitcoin transaction.
 - b. The tool I utilize to perform blockchain analysis in this report (for the supported blockchains) is Chainalysis Reactor. Chainalysis Reactor provides a visualization of blockchains; put more plainly, this is providing visualizations of the same data that would be viewable on a block explorer. The core difference between Chainalysis Reactor and a block explorer, insofar as is relevant for the purposes of this Report, is that Chainalysis Reactor has what is known as attribution (labeling of wallet addresses), which will not exist for most addresses in free block explorers.
19. Clustering is the means of grouping 2 or more individual Bitcoin addresses into a group of addresses which are believed to be controlled by the same entity. There are numerous heuristics for clustering, some examples of which would be co-spending and change address analysis. As shown in the below figure, the two addresses on the

left can be presumed to be controlled by the same entity, as they both are inputs in the transaction (rendering it extremely likely that one entity holds the private keys for, and thus owns, both wallets.) There are two outputs, one of which is for 12 BTC -- an amount a user is likely to send another user, where the other output is 2.9 BTC, a less likely number to be purposefully selected⁷. Upon this simplified example, Addresses A, B, and D would be clustered.



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20. Chainalysis Reactor (as well as similar tools) will have a baseline amount of what is known as attribution: the labeling of wallet addresses. Addresses will be unknown/pseudonymous until Chainalysis updates/labels the addresses in their system. A combination of automated analysis and manual investigation is utilized to continually add attribution.

21. Attribution is the “oil” of the blockchain analysis world and constantly sought. Consequently, attribution for well-known services tends to be quite exceptional in Chainalysis Reactor.

22. The screenshot shows the Nexo.io interface. On the left is a circular logo with a red 'x' and a blue 'f'. The main area displays a Bitcoin address: 36EAqnTD7vREBytbblW1nmDYf3wgCnQv... Below the address is a "Watch" button. To the right, a table shows transaction statistics:

Root Address:	36EAqnTD7vREBytbblW1nmDYf3wgCnQv...	Balance:	200,017... BTC	Transfers:	244,437
		Sent:	112,799,963... BTC	Withdrawals:	234,043
		Received:	113,036,410... BTC	Deposits:	10,394
		Total Fees:	36,428... BTC	Addresses:	221,712

At the bottom, there are tabs: Overview (selected), Counterparties, Transfers, Addresses, OSINT, and Community. A "↓ EXP" button is in the bottom right corner.

While it is true that no services (not even the most voluminous exchanges, such as Coinbase or Binance) will ever have all addresses attributed, services that have a

⁷ Note most often when using this type of heuristic, the amount is likely to be an even less likely manually selected number, such as 2.99757208 due to miner fees, rendering this heuristic quite reliable.

⁸ <https://www.cs.princeton.edu/~arvindn/teaching/spring-2014-privacy-technologies/btctrackr.pdf>

lower amount of addresses attributed oftentimes lack such attribution as a result of the entity not utilizing a compliance tool such as Chainalysis KYT (the compliance equivalent of Chainalysis Reactor), and/or not submitting address data to such providers. Voyager currently has 1 Bitcoin addresses attributed in Chainalysis Reactor, a figure far lower than I expected. Voyager competitor Celsius has 277,287 attributed addresses for Bitcoin in Chainalysis Reactor; while also not high, I'd expect Voyager (a service with more aggressive marketing) to have more address attribution. I came to find out that Voyager's lack of attribution may at least partially have to do with how Voyager processes customer deposits and withdrawals, which is distinctly different (perhaps deliberately) from their competitors and obfuscates potential attribution efforts.

23. Further, attribution for Voyager wallet addresses for other blockchains was scarce and in some cases non-existent. While attribution for some more less-utilized assets (say, LTC or the ERC-20 tokens) may often have gaps, for attribution on widely-utilized assets (such as Ethereum) to be lacking immediately stood out to me, and made necessary my efforts to perform manual attribution for Voyager addresses.
24. Consequently, in order to determine what Voyager does with customer deposits, how Voyager processes customer withdrawals, and to the extent possible⁹ potentially identify what Voyager does with customer assets, I made numerous deposits and withdrawals of varied cryptocurrencies with an account on Voyager . This enabled me to obtain blockchain data to analyze for a better data set and more recent history.
25. In order to perform this analysis, I utilized Chainalysis Reactor. Available as supporting records are full resolution graphs and native .grf files for any and all blockchain analysis cited in this report, as well as Voyager account history evidencing the transactions relied upon in order to supplement any pre-existing attribution in Chainalysis Reactor.

⁹ Once cryptocurrency is traced to an exchange/service, analysis stops. This is because records from the service would need to be produced in order to continue analysis. This is functionally equivalent to determining what happened to a \$100 bill once an individual brings it to the bank: you may see them bring it to the bank, but they deposit it for an IOU and lose custody of it: you would need the individual's bank records to determine what happened with the value of that asset.

IV. SUMMARY OF OPINIONS

“We will lend, sell, pledge, rehypothecate, assign, invest, use, commingle or otherwise dispose of funds and cryptocurrency assets to counterparties, and we will use our commercial best efforts to prevent losses.”¹⁰

“In consideration for the interest earned on your account, you grant the right, subject to applicable law, without further notice to you, to hold the cryptocurrency held in your account in the firm name or in another name, and to pledge, repledge, hypothecate, rehypothecate, sell, lend, or otherwise transfer or use any amount of such cryptocurrency, separately or together with other property, with all attendant rights of ownership, and for any period of time and without retaining a like amount of cryptocurrency, and to use or invest such cryptocurrency at its own risk.”

26. Voyager does not accurately convey the risk associated with the interest-bearing offering (the “Voyager Interest Program”) of their service.

- a. The general risk disclosures included in Voyager’s consumer-facing materials is insufficient to allow consumers to make an informed decision that reflects their risk appetite. There is an immense range of risk/reward (from relatively low risk to extremely high-risk) that is possible depending upon what, exactly, Voyager does with customer deposits.
- b. Voyager publicly provides no meaningful specifics about how customer assets are utilized. Voyager offers interest rates that exceed competitors such as Celsius¹¹ and BlockFi, companies that also suggest they earn interest in a similar way.
- c. Celsius has been audited¹². Similar companies that were not audited are undoubtedly immediately able to be considered high-risk for consumers. For example, Cred, a company similar to Voyager and Celsius (which also lacked transparency) elected to take high-risk investments that did not end happily¹³.

27. Voyager is not transparent.

¹⁰ <https://rewards.investvoyager.com/interest/>

¹¹ While true Celsius and Voyager are partnered in some capacity, they are still competitors in other capacities; namely, customers depositing assets.

¹²

<https://www.prnewswire.com/news-releases/celsius-network-partners-with-chainalysis-to-confirm-audit-of-3-31-billion-in-assets-301189705.html>

¹³ <https://guidehouse.com/insights/financial-crimes/2021/cryptocurrency-lending-lessons-cred-bankruptcy>

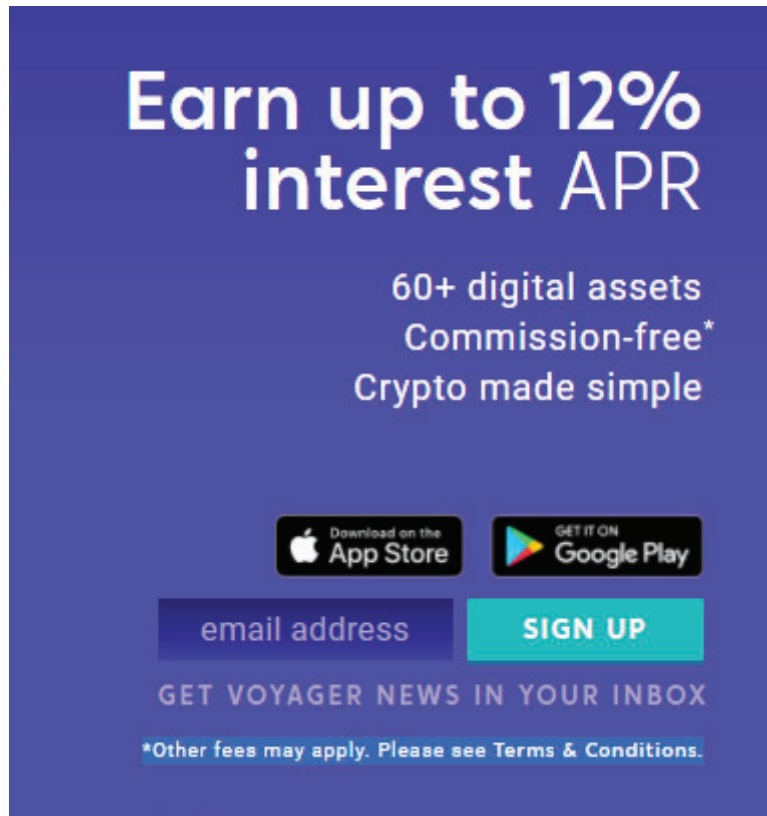
- a. As described in the preceding paragraph regarding the Voyager Interest Program, it is impossible for consumers to make an informed decision regarding whether to deposit funds to Voyager or not. Further, even if an individual opts out of the Voyager Interest Program, nothing evidences customer funds are not rehypothecated, rendering Voyager customers susceptible to the risk of this rehypothecation whether or not they have the risk appetite and/or desire to sign up for such activity.
 - b. Voyager's responses to public inquiries are unresponsive. For example, I doubt that what customers intended when asked "is Voyager regulated?"¹⁴ (if that was, indeed, what was asked multiple times, and Voyager didn't basket broader questions into this FAQ) is whether or not Voyager is subject to FinCEN regulation. Voyager is registered and operates within and solicits the business of customers within the applicable jurisdiction. Said differently, Voyager being regulated by FinCEN is no different from stating I breathe air. Notably absent from Voyager's FAQ (or anywhere else for that matter) is any information evidencing Voyager's efforts to be a compliant organization: as some examples, Voyager is one of the very few companies of their scale not represented in Crypto Defender's Alliance, nor am I aware of any transaction analysis tool Voyager is utilizing¹⁵.
 - c. Voyager has provided no verification they are solvent nor any substantive information about how they utilize customer funds (which increases the risk of insolvency immensely.) It is possible for Voyager to verify they are solvent¹⁶. While Voyager might suggest that they do not want to reveal particulars about what they do with customer funds as to protect trade secrets, at a minimum, they could easily retain a reputable third party to perform an (ideally recurring) audit.
28. Voyager engages in extremely aggressive promotional activities, often via influencers that receive financial incentive, that target primarily new or less knowledgeable cryptocurrency users. An additional risk Voyager and Voyager customers face, in light

¹⁴ <https://support.investvoyager.com/support/solutions/articles/43000458812-is-voyager-regulated->

¹⁵ To be clear, it is distinctly possible, even probable, that Voyager has acquired a blockchain analysis tool -- I just typically know which tools most companies use as I have interacted with their compliance/investigations team in the course of my duties. Said differently, the fact I have not experienced this with Voyager is, from experience, likely due to improper use of a blockchain analysis tool/inadequately trained staff.

¹⁶ <https://www.kraken.com/en-us/proof-of-reserves-audit>

of such activity, is regulatory scrutiny, whether for market manipulation or potentially Securities Act 17(b)¹⁷ violations depending upon particulars.



“Voyager works to obtain the best execution available in the marketplace for our clients. There is no set price for a market order. Best execution is a concept combining the evaluation of multiple factors, including opportunity to obtain a better price than what is currently quoted, the speed of execution, size of trade, settlement period and the likelihood the trade will be executed.”¹⁸

29. Voyager is deliberately misleading, and often refuses to substantiate information that is essential for a consumer to make an informed decision. As one prominent example, Voyager strongly advertises “Commission-free” trading on their landing page, but no such fees are ever clearly outlined.

a. In the absence of any specificity regarding “the marketplace”, it is impossible for a consumer -- or anyone for that matter -- to determine which

¹⁷ <https://www.expertservices.com/insight/sec-penalizes-celebrities-for-violating-the-securities-act/>

¹⁸

<https://support.investvoyager.com/support/solutions/articles/43000458765-how-is-the-price-for-market-orders-de-terminated->

“marketplaces” (exchanges?) Voyager is determining to provide the “best execution.”

- b. There would, indeed, presumably be a set price for a market order, which would be derived from an aggregate of the exchanges Voyager is sourcing liquidity from. In the simplest terms possible, it is entirely a black box as to what Voyager is doing with orders purportedly directed to their Smart Order Router, where (which exchanges) the Voyager Pricing Engine “calculates the fair market price” from, and how the Proprietary Fills Algorithm functions -- and in the absence of such information, as well as demonstrable discrepancies between what Voyager says should happen and what happens, these systems are either improperly configured, or to varying degrees may not even exist or exist as described by Voyager.
 - c. Phrasing such as “evaluation of multiple factors” is, per my experience regarding *all* companies that were suspected of, and subsequently confirmed to be, misleading consumers, extremely concerning. The utilization of seemingly-technical jargon, and/or otherwise unspecified yet critical information, often result in tragedy for consumers¹⁹. In the absence of any information whatsoever regarding how Voyager is processing customer orders, it is functionally impossible to verify that Voyager is even performing the steps described on their own FAQ. Voyager, in essence, is expecting the same degree of trust from users that Bitconnect expected from their users regarding a “trading bot” that turned out to never exist.
 - d. Not even the fine print of Voyager’s customer agreements show that they are in fact not 100% commission free. Voyager is undoubtedly profiting off of customers utilizing the trade functionality of the Voyager platform, and is irrefutably *not* providing best execution. Voyager can not both claim to provide best execution *and* be commission-free when it is easily evidenced that numerous other exchanges provide better rates.
30. The exchange rates provided by Voyager are consistently worse than the rates provided by cryptocurrency exchanges -- regardless of whether the exchange is centralized or decentralized, US-based or not US-based, etc. For Voyager to suggest they are providing any form of “best execution” across the marketplace is demonstrably false.

¹⁹ <https://www.makeuseof.com/the-rise-and-fall-of-bitconnect-an-internet-famous-ponzi-scheme/>

- a. What makes Voyager's representations even more egregious is that, in the course of my analysis, I had performed extensive cryptocurrency deposits and withdrawals in order to discover cryptocurrency wallet addresses that Voyager utilizes for customer funds. Customer assets are sent to/from either Binance or HTC Trading wallets. Comparing exchange rates on Voyager to those on Binance resulted in Binance having better exchange rates on *every* occasion. Said differently, the *one* exchange that it is possible to assess Voyager would be including across their marketplace comparison (and thus should reflect the same price in Voyager app) provided a better deal than Voyager.
31. Voyager does not publicly disclose any liquidity or trading relationship with Binance, an exchange restricted to US residents. The absence of any information regarding the nature of Voyager routinely sending funds to what I presume are Binance account(s) they control is immensely concerning. While possible a company like Voyager could onboard to an exchange like Binance with a corporate account in a legitimate way, Voyager customers would assess a different level of risk if they knew their assets were diverted to an solvency-audited US-based exchange and an exchange that has not been hacked, such as Kraken, as opposed to a foreign exchange with more known²⁰ AML issues and hacks. In my estimation, if Voyager customers were polled on-the-spot and told their assets were diverted to Binance (let alone what the assets are utilized for afterwards), many would find this unsettling and many may not have utilized Voyager if they had this knowledge.

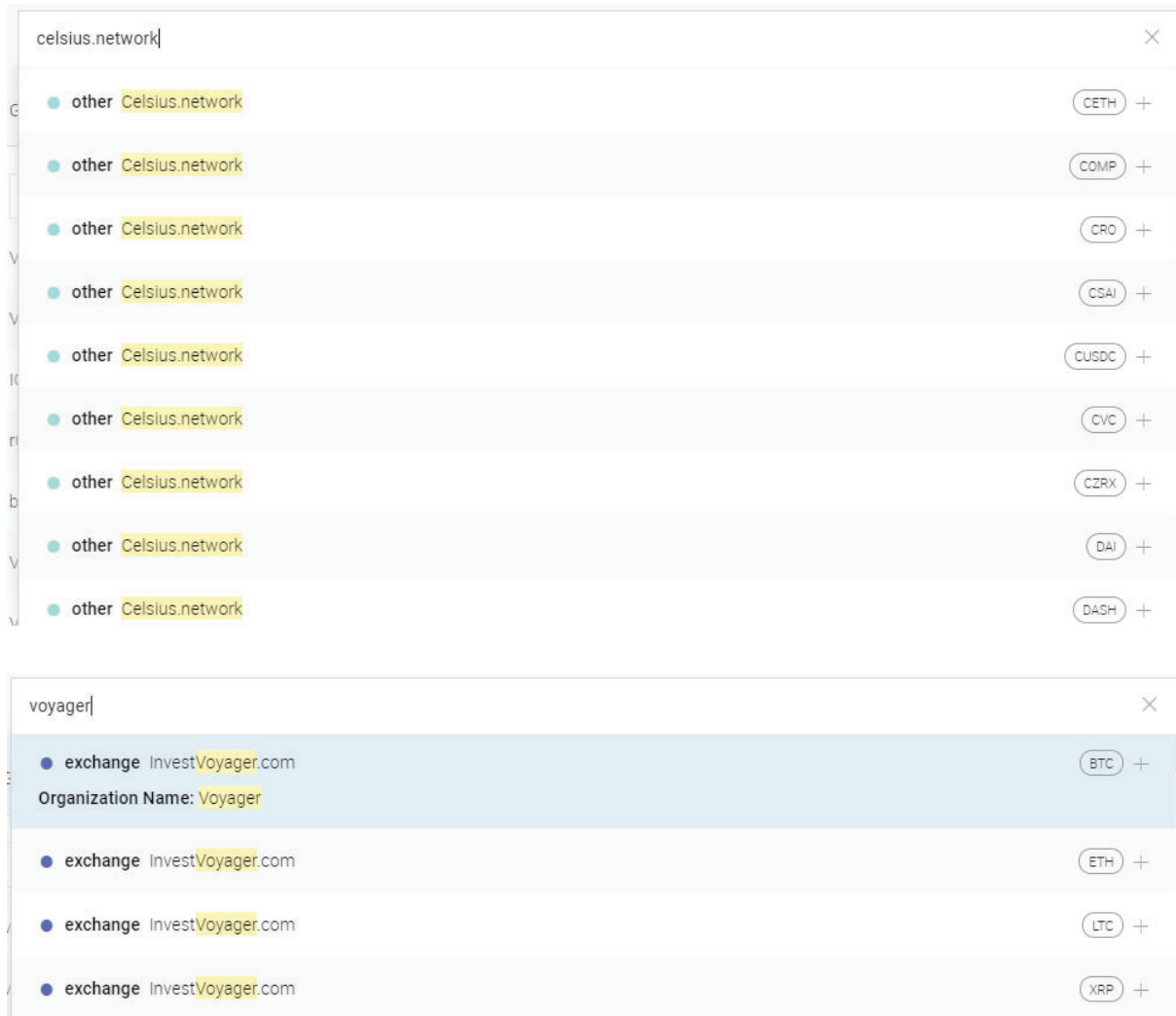
V. BLOCKCHAIN ANALYSIS

32. In order to perform this analysis, I utilized Chainalysis Reactor. Available as supporting records are full resolution graphs and native .grf files for any and all blockchain analysis cited in this report.
33. Chainalysis Reactor is considered to be the industry standard for blockchain analysis for many reasons, the most significant one being attribution, which is the labeling of wallet addresses. Chainalysis has better attribution, by a multiplier, than any of their competitors. Said differently, of any blockchain analysis tool provider, the one most

²⁰

<https://www.bloomberg.com/news/articles/2021-05-13/binance-probed-by-u-s-as-money-laundering-tax-sleuths-bore-in>

likely to have pre-existing wallet address identification for Voyager wallets would be Chainalysis.



34. Upon a search of Celsius, a core Voyager competitor, their addresses are well-attributed; note the requirement to scroll down to see the full depth of cryptocurrencies that Celsius wallets are attributed in. Upon a search for Voyager, only four cryptocurrencies are attributed, and of those, the attribution is partial.
35. While a service not being attributed in Chainalysis does not confirm the service is suspicious, it is generally typical for compliant and responsibly-managed services to have attribution in a tool like Chainalysis Reactor for several reasons:
 - a. Companies will sometimes provide their wallet addresses to companies like Chainalysis in order to be helpful to law enforcement and/or decrease the

overhead associated with false positives and inquiries that would otherwise stem from a lack of attributed wallet addresses.

- b. It is expected that companies such as Voyager have effective compliance program.
 - i. A preliminary review of Voyager's LinkedIn page does not suggest they have sufficient compliance staff²¹. The few employees I do see with roles that would be applicable do not appear to have relevant industry experience nor certifications in any blockchain analysis tool.
 1. I note that Muhammad Darr obtained a certification from Blockchain Intelligence Group around the time he joined Voyager²². BIG would not be a sufficient tool for a firm such as Voyager to effectively be compliant. Mr. Darr would know this, as his time at Gemini (which utilizes Chainalysis) would easily evidence the significant difference in capabilities between Chainalysis and BIG.
 - ii. Voyager is one of the few larger western-focused services not represented in Crypto Defender's Alliance²³, which is free to join and significantly bolsters AML efficiency.
 - iii. Most importantly, in order to have an effective compliance program, a blockchain business *must* have a transaction monitoring/analysis tool, such as one from Chainalysis, Elliptic, or Crystal. Without such a tool, it is impossible to have the baseline information needed to assess AML risk; or in simpler terms, it is impossible to be compliant without such a tool. These tools range significantly in terms of cost, however, a company the scale of Voyager can undeniably afford the most potent tool (Chainalysis KYT).
 1. I further note that it is possible, even probable, Voyager does, indeed, have a transaction analysis tool. However, it is also common that companies will simply acquire such a tool for "compliance theatre". The mere acquisition of such a tool does not make a company any more compliant than being in the garage makes a person a car.

²¹ <https://www.linkedin.com/company/investvoyager/people/?keywords=compliance>

²² <https://www.linkedin.com/in/muhammad-darr-cams-cci-79912315b/>

²³ <https://cryptodefendersalliance.com/>

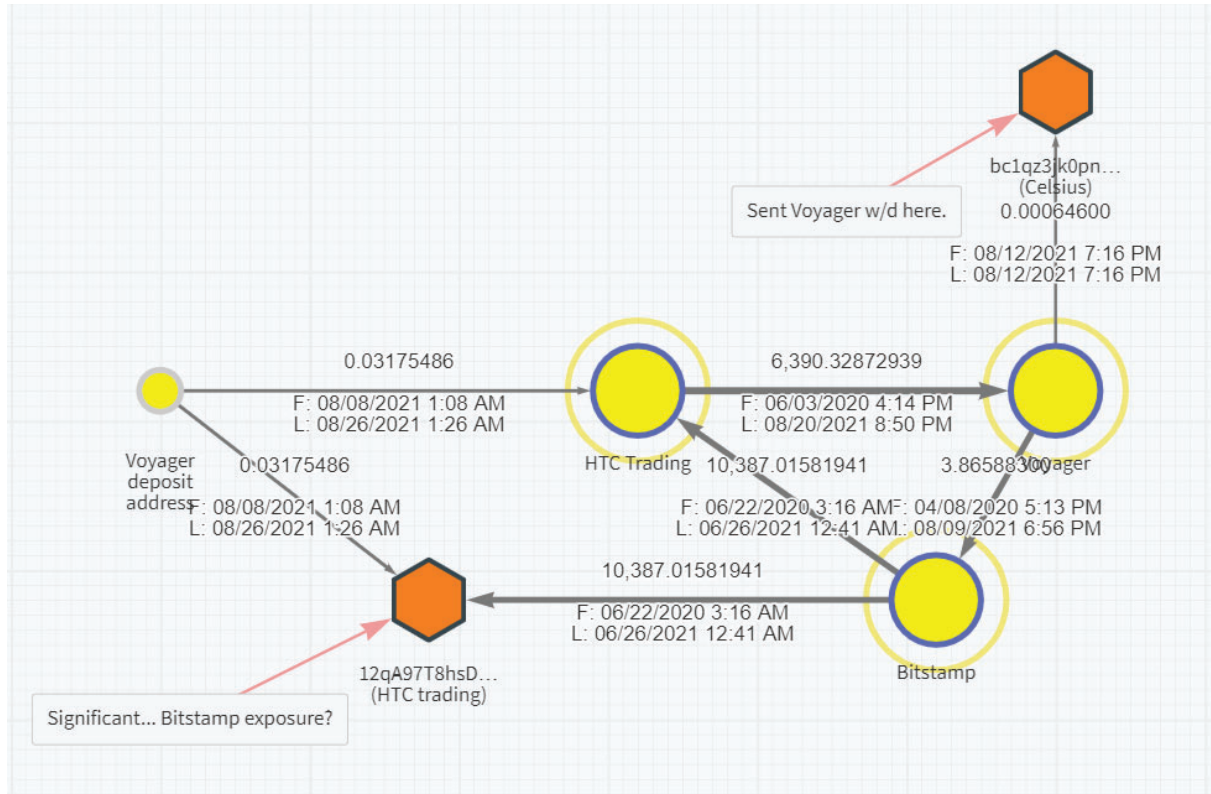
- iv. The very nature of a blockchain startup utilizing a blockchain analysis tool would typically entail their wallets being attributed in the tool provider's system. More simply: if Voyager utilized Chainalysis KYT, it is likely that Chainalysis would have Voyager wallets attributed.
 - c. Besides companies voluntarily providing wallet address attribution to firms such as Chainalysis (or being themselves customers), another way addresses sometimes are attributed is via utilization. For example, while Coinbase does not utilize Chainalysis (as they have their own transaction analysis tool from a company they acquired²⁴), Chainalysis has extremely strong Coinbase attribution.
 - d. I note it is my experience that blockchain companies that are not easily evidenced as compliant often do not desire for their wallet addresses to be attributed out of concern of wrong-doing²⁵.
36. Consequently, in order to determine what Voyager does with customer deposits, how Voyager processes customer withdrawals, and potentially identify some exchanges Voyager may have included in their alleged marketplace comparisons, I made numerous deposits and withdrawals of varied cryptocurrencies with an account on Voyager. Full resolution copies of all of these graphs are attached as Exhibit D.

²⁴

<https://cointelegraph.com/news/coinbase-bought-neutrino-for-135-million-acquisition-contract-allegedly-shows>

²⁵

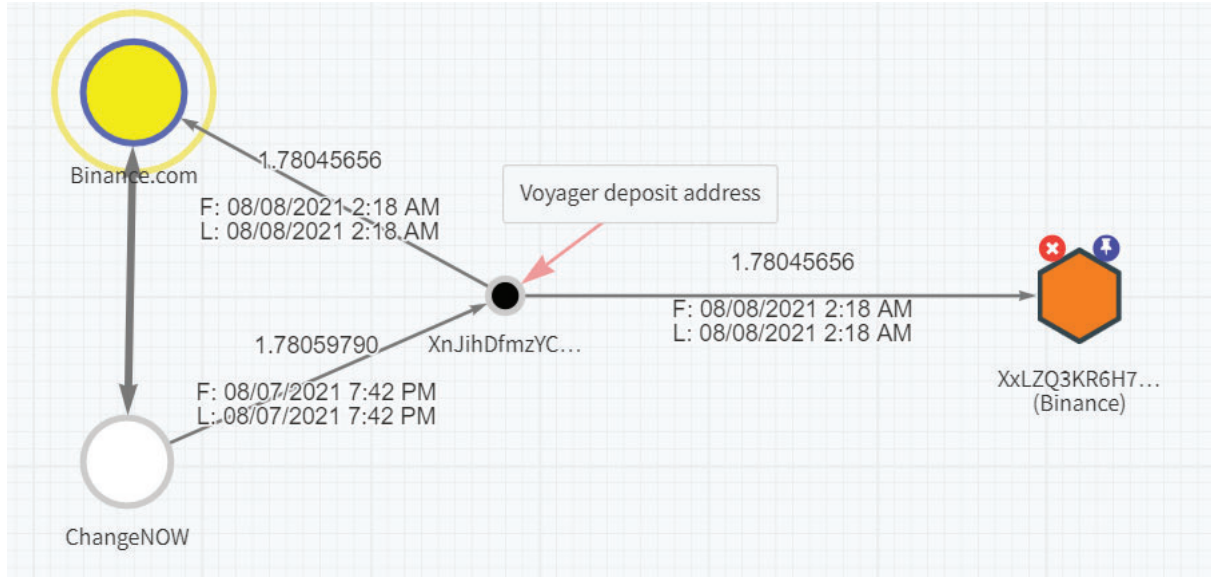
<https://www.coindesk.com/policy/2021/03/04/blockchain-sleuth-says-okex-huobi-stonewalled-him-in-child-porn-investigation/>



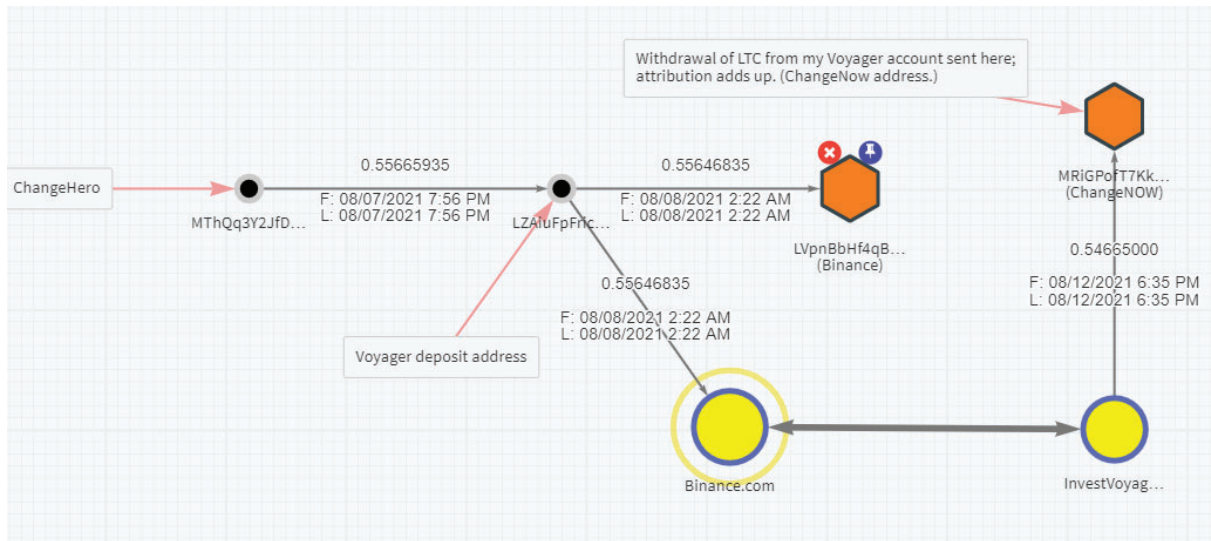
37. As shown above, my Bitcoin deposit to Voyager was sent to HTC Trading. Voyager “wholly owns” HTC Trading²⁶. It is impossible to determine exactly what Voyager and/or HTC Trading utilized my BTC for after this deposit.

38. Also shown above, when I initiated a withdrawal transaction from Voyager, it was processed from attributed Voyager BTC wallets.

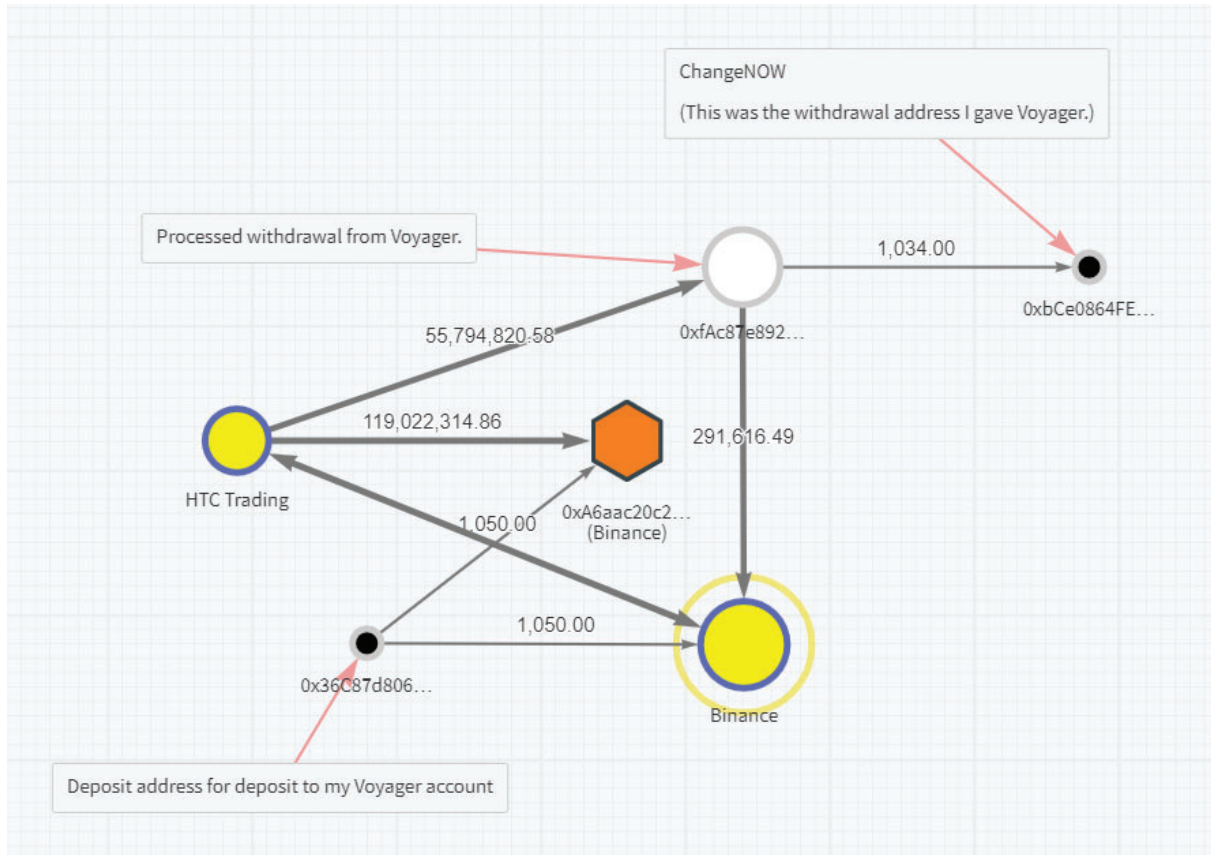
²⁶ <https://sec.report/otc/financial-report/285133>



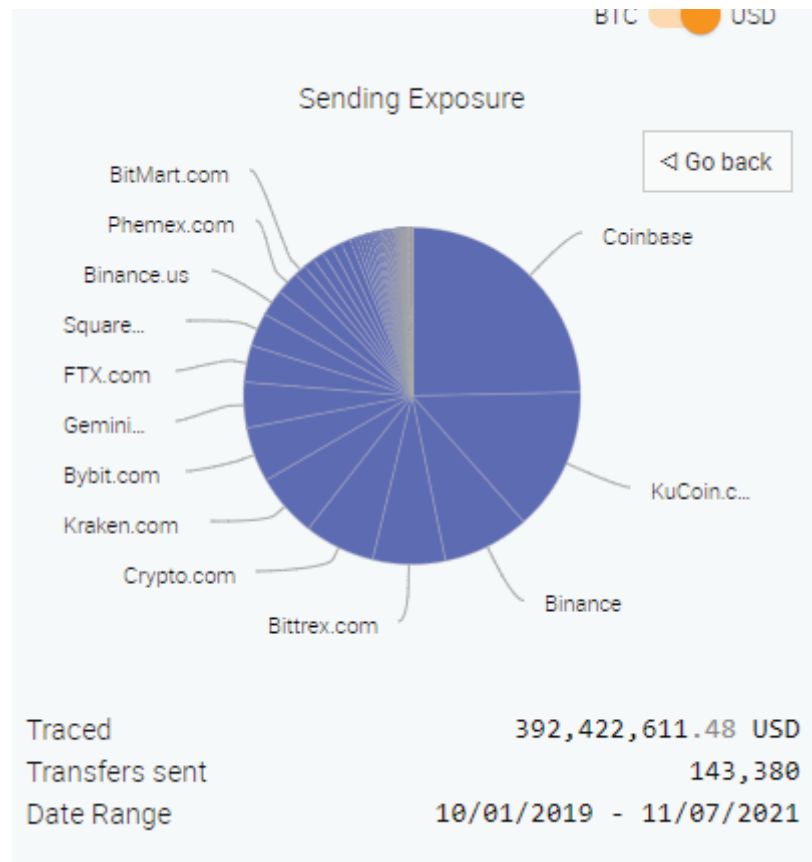
39. In the above example, when I made an XRP deposit to Voyager, it was sent to a Binance deposit address. It is impossible to know what Voyager did with my XRP after this deposit without records from the associated Binance account.



40. In the above example, when making a LTC deposit to Voyager, funds are promptly “swept” to Binance. When requesting a LTC withdrawal from the Voyager account, the withdrawal is processed from Voyager wallets.



41. In the above example, the USDC deposit I made to Voyager is promptly swept to Binance. The withdrawal is processed from an unattributed address that belongs to either HTC Trading or Voyager, and unsurprisingly evidences further heavy utilization of Binance as the sole exchange with any observable and significant direct connection.
42. Analysis of Voyager across other assets presented similar findings: funds would be swept to or withdrawn from either a Binance or HTC trading address or an unattributed address with a strong relationship to those two entities. It would be disproportionate/repetitive to detail each asset, however, graphs for each asset are attached to this report.



43. While proportionality and focus at this time preclude me from providing a deeper review into Voyager’s AML practices, observations regarding Voyager addresses (and the nature of the entities they send and receive cryptocurrencies from) while conducting my attribution work did prompt concerns. As just one example, Voyager’s known Bitcoin address sends funds to exchanges that are not US-based or even preclude US residents from signing up (KuCoin, Binance, Byibit, and FTX would all be strong examples.) In essence, where Voyager customer’s withdraw funds to does not reflect what I’d expect a US-based company soliciting US-based users²⁷ to send funds to. In my experience, when I see sending exposure²⁸ that does not reflect the targeted demographic, the company attributed to the wallet(s) has an (often intentional) porous approach to compliance; said differently, I find it very unlikely that the quantity of Source of Wealth inquiries Voyager sent to customers due to these observations (assets going to US-restricted exchanges) would match the statistics shown above.

²⁷ <https://www.investvoyager.com/blog/where-is-voyager-available/>

²⁸ Exhibit C - Cluster_exposure_of_Voyager_BTC

44. My blockchain analysis did *not* enable me to determine anything insofar as Voyager's purported trade processing practices. This is what I expected, as trades are executed by (centralized) exchanges in a means that does not involve a blockchain transaction.

VI. TRADING ON VOYAGER & COMPARISON TO OTHER PLATFORMS



Voyager, your passport to the world of crypto

Top 5 Reasons to Use VOYAGER

- 1 >> Earn up to 10% Interest APR
- 2 >> 55+ Crypto Assets
- 3 >> Better Pricing on Trades
- 4 >> Simple & Easy to Use
- 5 >> Refer a Friend – Earn Free BTC!

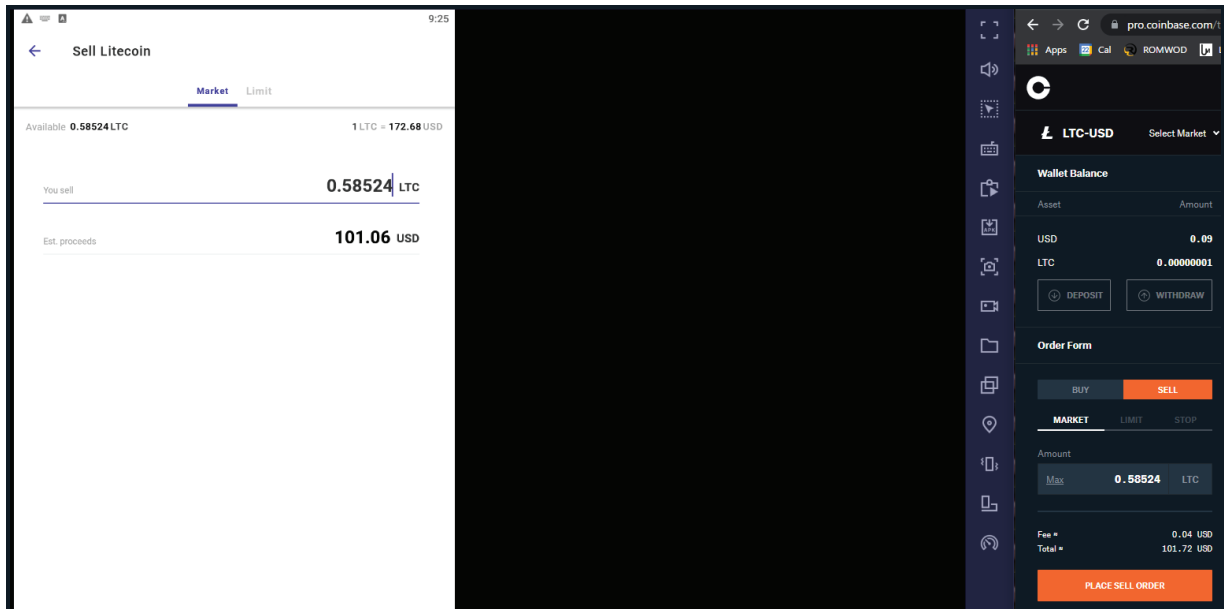
The graphic also features a smartphone displaying a cryptocurrency trading interface with a price of \$62,983.30 and a line chart.

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²⁹ <https://www.investvoyager.com/blog/the-top-five-reasons-to-use-voyager-to-invest-in-crypto/>

45. In order to compare Voyager's rates to the general cryptocurrency marketplace, I executed the following process:
- a. Voyager was opened on my left display. The exchange I am comparing Voyager was opened on my right display.
 - b. I would enter the same market order on Voyager and the exchange I would be comparing Voyager to. For example, if I was comparing how much BTC I would receive in a market buy order for Voyager and Coinbase, I would have the same order (\$100 in exchange for BTC) opened on Voyager and Coinbase.
 - c. I would Windows-Shift-S (which freezes your screen) and note the time, jot down the relevant data from Voyager and the compared exchange. I would save the screenshot, and enter the data into the spreadsheet³⁰. Consequently, I have substantiating records for all of the entries in a spreadsheet that can't be refuted on potentially being done at different times.
 - d. I note this comparison is quite simple to do, and anybody with a Voyager account can follow the above steps to compare quotes in the same way. In my estimation, the only reason Voyager customers do *not* do this is because they are told -- whether by Voyager or an (uncorrected) member of the public (often an "influencer") that the trades are commission-free.
46. As part of this analysis, I selected the following exchanges to compare Voyager's rates:
- a. Coinbase and Kraken, as they are exchanges heavily utilized by US customers with high liquidity.
 - b. Binance, as Binance has some of the highest liquidity/quantity of trading pairs in the industry. Further, the *only* exchange Voyager is presently evidenced as potentially sourcing liquidity from is Binance.
 - c. FTX, as this is an exchange more focused to advanced traders -- certainly, the type of platform that Voyager (or whoever Voyager is purportedly lending assets to) would be extremely likely to utilize.
 - d. Uniswap and Sushiswap, as these are decentralized exchanges with highly transparent and verifiably accurate order books that would also be sensible routes for a "best marketplace" rate.

³⁰ See: Exhibit F - Voyager trade comparison



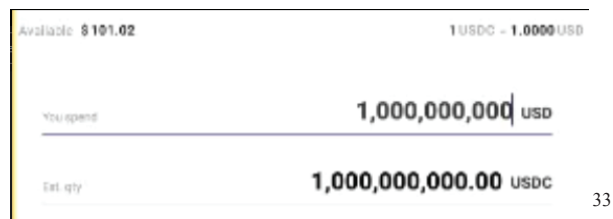
47. On all but one occasion (which was for a less liquid cryptocurrency, ZRX, in a small amount, on FTX), Voyager's prices were worse than whichever exchange they were compared to. Voyager does not offer better pricing on trades. In fact, the rates Voyager offers would result in a plainly worse deal, often to the tune of nearly or more than 1% higher than competitors, even on highly liquid pairs such as BTC/USD:

Date/Time Captured	Trading Pair	Voyager	Coinbase
8/19/2021 4:14 PM EST	ZRX/USD	\$7.56	\$7.65
8/19/2021 4:16 PM EST	ZRX/USD	\$7.58	
8/19/2021 4:19 PM EST	MANA/USD	\$22.55	
8/19/2021 5:18 PM EST	BTC/USD	\$102.45	\$103.05

48. Consequently, Voyager's representation of offering "Better Pricing on Trades" is, under the most generous of terms, deliberately misleading (it is *obvious* that would lead most people to conclude "across exchanges"), and I'd opine deliberately misleading in a way that is plainly to enrich themselves at the expense of that very misconception Voyager instills.
49. Voyager represents they are referencing several exchanges to leverage their "smart order router." Unless Voyager is utilizing 3 or more exchanges which provide rates that are far above industry standards (which I not only find incredibly unlikely, but if it

were somehow true, would mean Voyager is grossly incompetent in selecting the exchanges they use), they either are not utilizing three or more exchanges or are tacking exuberant fees on top.

50. Baffled as to how Voyager may be generating the quotes for market buy/sell orders, I decided to run one more test on Voyager regarding USD/USDC. USDC is a cryptocurrency known as a stablecoin, which should be close to the value of the USD; however, these assets are never *entirely* 100%-pegged³¹. Consequently, if one goes onto a cryptocurrency exchange (with legitimate liquidity -- so Coinbase or Kraken would be good choices, whereas an exchange known for fake volume, which is also likely to have fake order books, such as HitBTC³² might not be), and seeks to trade between a stablecoin and fiat, the exchange will not be an exact 1:1 match. Note that when entering tens or hundreds of millions of dollars into a USDC buy order on Kraken, the peg noticeably is lost, as it should be. Note that on Voyager it does not.



51. In the absence of any indication Voyager is sourcing funds from exchanges, as well as the alarming revelation that Voyager's system purports to effectively have infinite USDC stores at peg, I am thus left to conclude that it is possible, if not probable, Voyager is not basing their market quotes off exchanges. The explanation may simply be that Voyager sources liquidity from Binance at a markup.

VII. OTHER OBSERVATIONS REGARDING VOYAGER

52. Voyager's withdrawal fees are high compared to competing services. Interestingly, one of their core partners/competitors, Celsius, seems to have no issues providing free withdrawals. And while I'm aware Celsius requires a minimum \$10 equivalent withdrawal, Voyager has withdrawal minimums as well, and Voyager's withdrawal fees oftentimes exceed \$10.
53. Binance is restricted to US residents. While that does not preclude a business from using them if, say, they are registered overseas, I'd be curious how this is legally structured. If, in reality, Voyager is taking US customer funds, and just giving them to

³¹ <https://invao.org/how-stable-are-stablecoins/>

³² <https://cointelegraph.com/news/bitwise-calls-out-to-sec-95-of-bitcoin-trade-volume-is-fake-real-market-is-or>

³³ See: Exhibit E - Infinite Stability.mp4

HTC Trading, and/or trading them themselves on Binance, I am especially curious how this is handled insofar as company structure. Notably, with Binance's known AML issues, even *if* Voyager were transparently providing Binance's rates on cryptocurrency trades (which they are not) to US users, Voyager is effectively a workaround for Binance being restricted to US residents *and* Voyager can not know, with confidence, what their ultimate source of funds is. Such activity would be, from a value transfer/blockchain analysis standpoint, described as a workaround to US regulatory requirements and cryptocurrency exchange terms of use.

54. HTC Trading has heavy Bitstamp exposure; Bitstamp is known for AML issues. The quantity of Bitcoin HTC Trading has received from Bitstamp alarms me, and heavily. This very well could be part of how Voyager can offer such generous interest: a steady stream of "clean" money from Voyager customers is exchanged for (what was) "dirty" money from shady OTCs³⁴. Shady OTCs routinely launder for criminals. Taking even a 30% cut in the laundering process is common; offering, say, 10% interest to Voyager customers is thus sustained.
55. I can evidence, and have evidenced, that Voyager sends funds to HTC Trading and Binance. What happens with those funds when sent to HTC Trading is a black box (until/unless records are provided), but what one *can* conclude is Voyager, or the company they own/act through, HTC Trading, has one or more Binance accounts. If Voyager were, in fact, being honest about providing the best rates to their customers, it would only be sensible to include in the hypothetical set of exchanges they are getting these alleged best rates from: namely Binance. Said differently: **why does Voyager send customer funds to Binance where they presumably hold account(s) yet a Voyager customer will consistently get a better deal on Binance than is shown on Voyager?** As far as the blockchain is concerned, the *one* place I can *definitively* assess Voyager receiving liquidity from is Binance, yet Voyager's rates were *worse* than Binance every time.

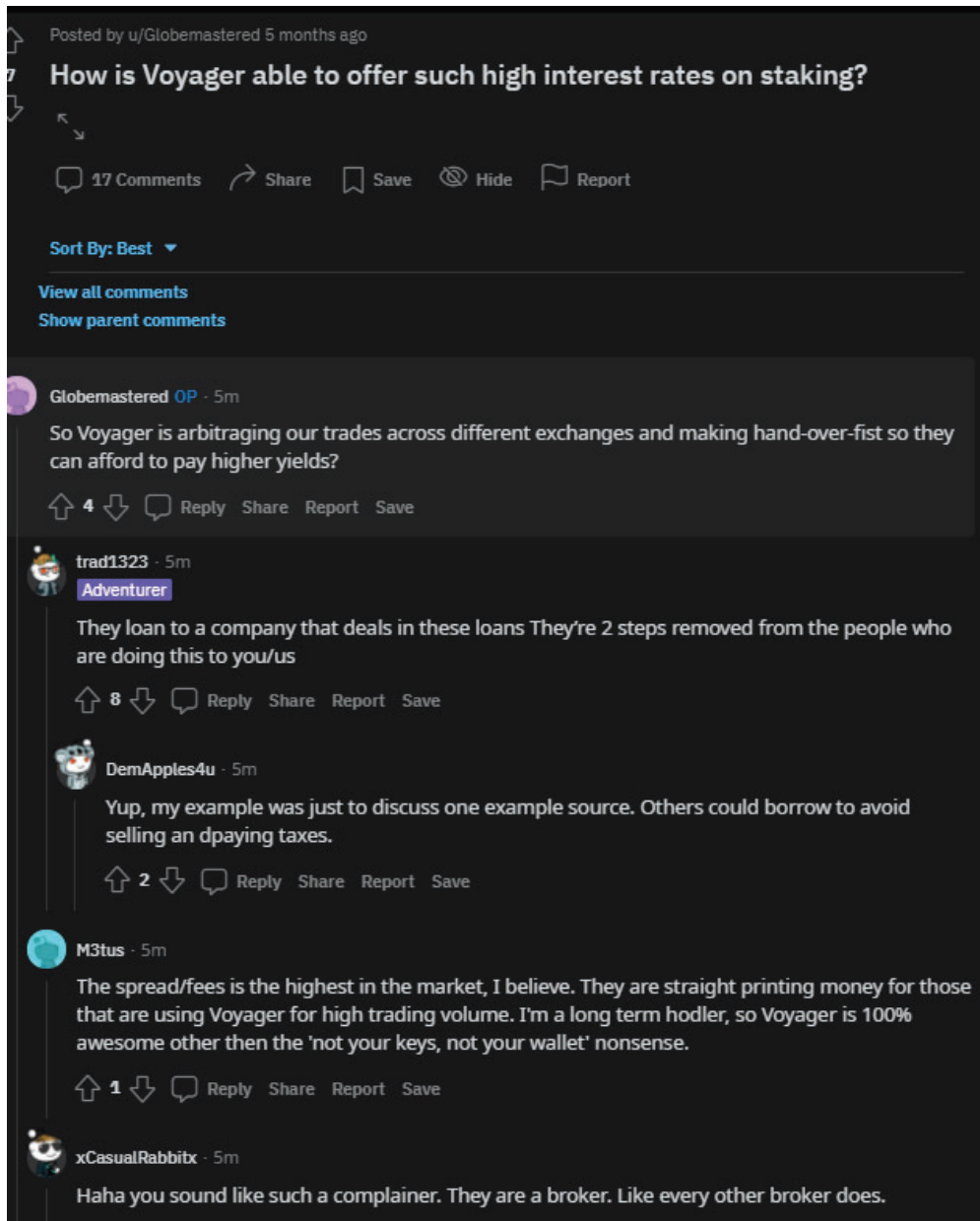
*"All investments involve risk and the past performance of a digital asset or other financial product does not guarantee future results or returns. Cryptocurrencies are highly speculative in nature, involve a high degree of risk and can rapidly and significantly decrease in value. It is reasonably possible for the value of Cryptocurrencies to decrease to zero or near zero. While diversification may help spread risk, it does not assure a profit or protect against loss. Investors should consider their investment objectives and risks carefully before investing. Previous gains may not be representative of the experience of other customers and are not guarantees of future performance or success."*³⁵

56. The above risk disclosure suggests a core risk that Voyager customers face is the volatility of cryptocurrencies. A cryptocurrency investor may have a diversified portfolio as part of efforts to mitigate this risk. However, Voyager's suggestion that

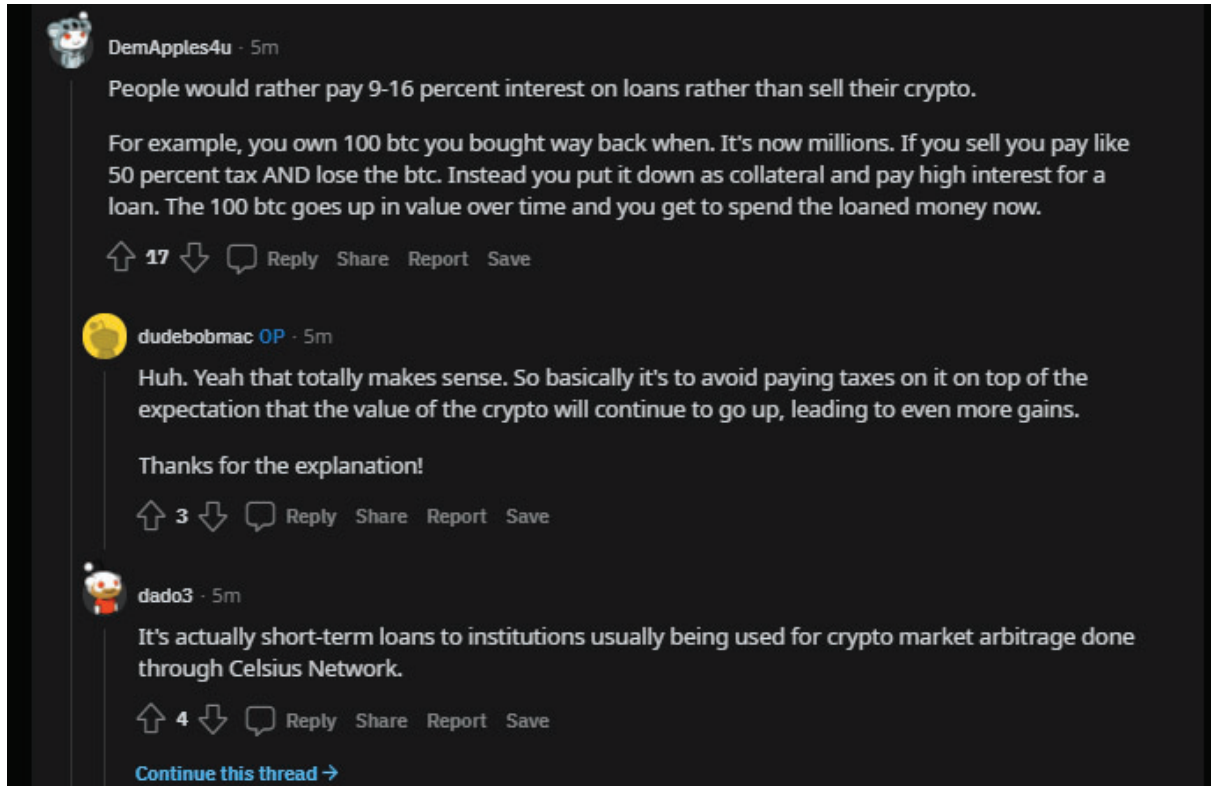
³⁴ <https://blog.chainalysis.com/reports/money-laundering-cryptocurrency-2019>

³⁵ <https://www.investvoyager.com/blog/voyager-where-smart-order-routing-meets-crypto/>

users themselves can mitigate this risk by diversifying on Voyager is neither verifiable nor likely to be true. This is because Voyager rehypothecates customer assets. If a user deposits a less liquid cryptocurrency (relative to BTC or ETH), such as LINK, I doubt and doubt strongly Voyager is keeping that asset in-kind; instead, it is typical that companies like Voyager will sell that digital asset for something else. Consequently, if LINK crashed over 90%, this would impact Voyager and their liabilities to all customers across all assets, whereas if a non-Voyager-using cryptocurrency investor simply held BTC and LINK themselves, that cryptocurrency investor's BTC holdings would not be impacted. In essence, volatility of cryptocurrencies (at least insofar as the particular types Voyager users deposit or purchase) is not the additional risk Voyager users take on by using Voyager: Voyager's management of those assets is the risk that would be proper to address, yet Voyager, bizarrely, does not do so in such a prominent way.

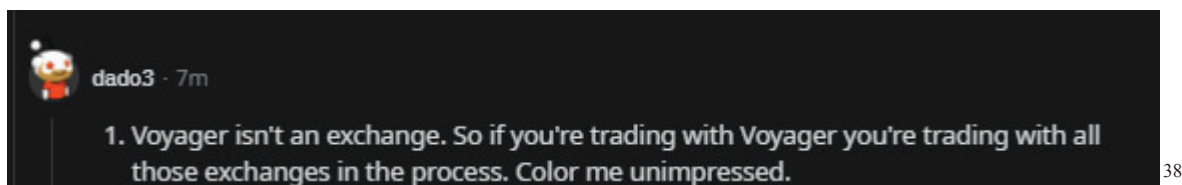


57. When attempting to Google “how does Voyager pay interest”, what is discovered are vague statements (“loaning,” “arbitrage”, etc.) that do not provide any proof of such activity, nor any particulars thereof.



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58. Generally, a common public interpretation of what Voyager does with customer assets to generate income is that they provide loans -- whether to their customers or to institutions. I find it incredibly unlikely that these loans support the interest rates Voyager offers and that such interest rates are supported by other means, including undisclosed higher-risk activity Voyager performs with customer assets.



59. Commentary I reviewed defending Voyager was often ripe with presumed facts that do not reflect what I discovered in my analysis. Per my analysis of Voyager trades, I find

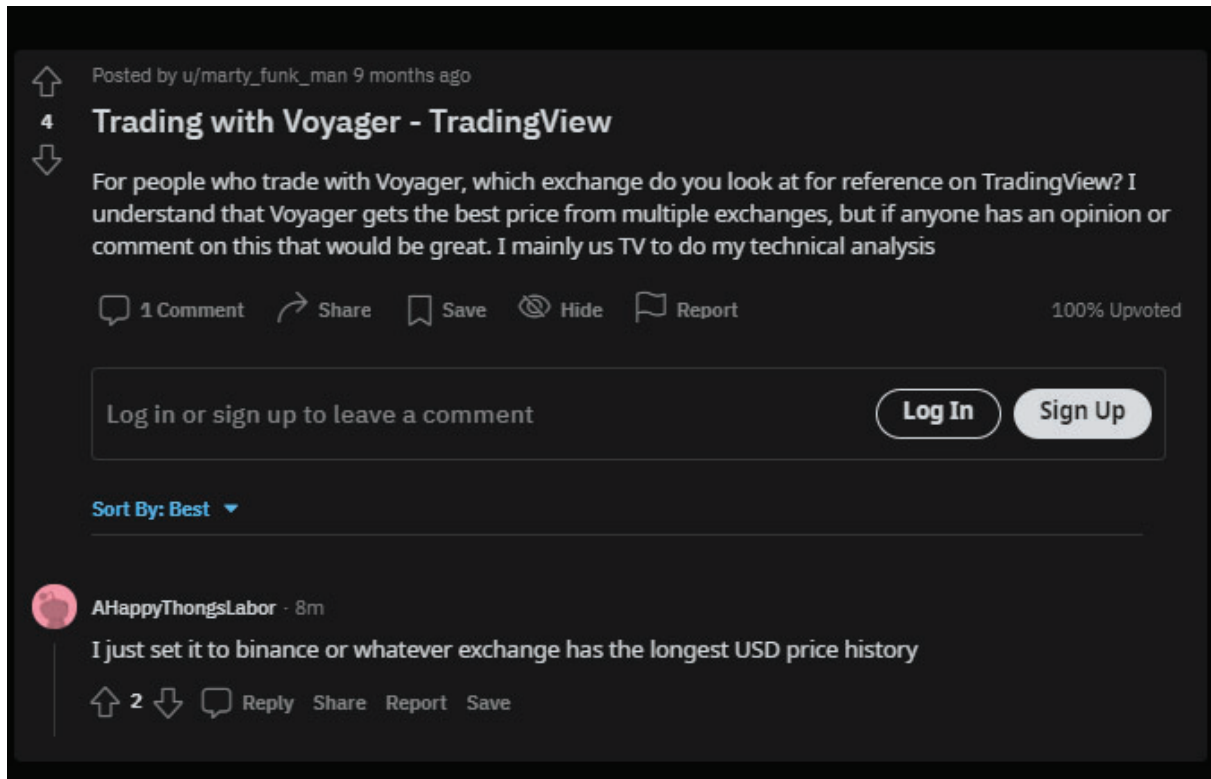
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https://www.reddit.com/r/Invest_Voyager/comments/o6tgnf/how_does_voyager_support_a_9_interest_rate_on_usdc/

38

https://www.reddit.com/r/Invest_Voyager/comments/mv3ke6/voyager_shill_re_evaluates_his_thoughts_on/gvj4fml/

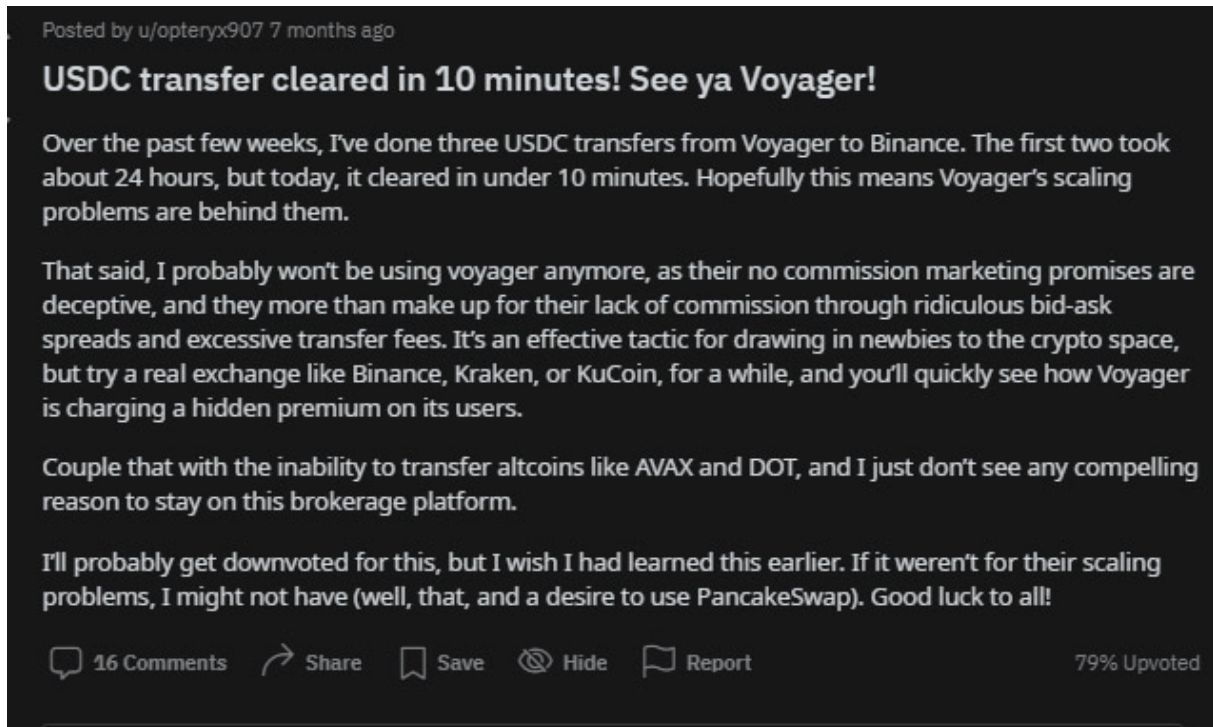
it very unlikely that Voyager is conducting trades “with all those exchanges in the process”. In essence, Voyager’s representations have misled (deliberately or otherwise) the public. Voyager frequents and moderates (and even replies to) their own social media platforms, such as Twitter or Reddit; in my estimation, this would be one (of an undetermined yet large amount of occasions) appropriate time for Voyager to have clarified how their system actually works.



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60. The fact that the public relies on Voyager’s representations regarding best price for trades is evidenced in posts such as the one screenshotted above: this Voyager user is plainly under the impression that the rate they receive on Voyager would be the same used on Binance or elsewhere, which is simply not true.

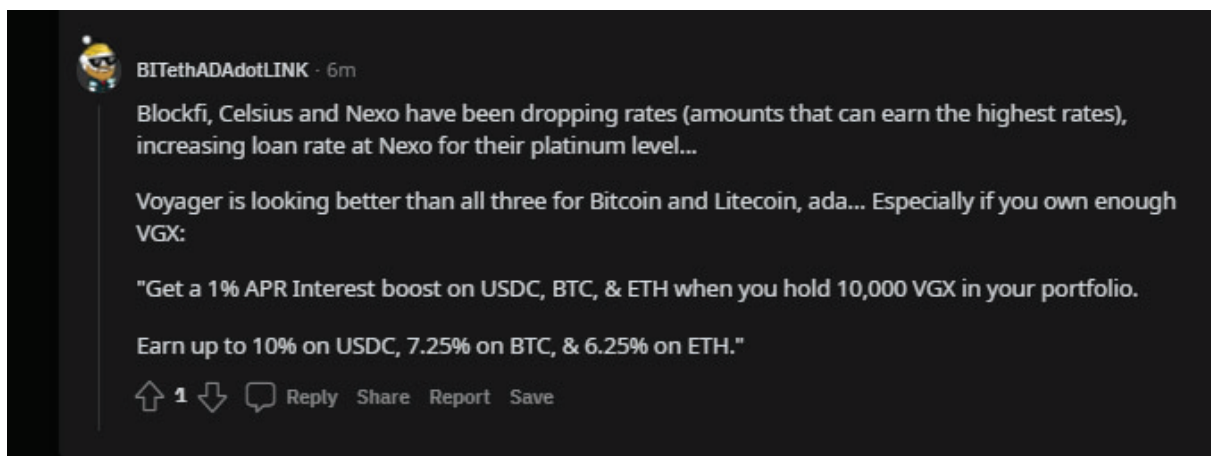
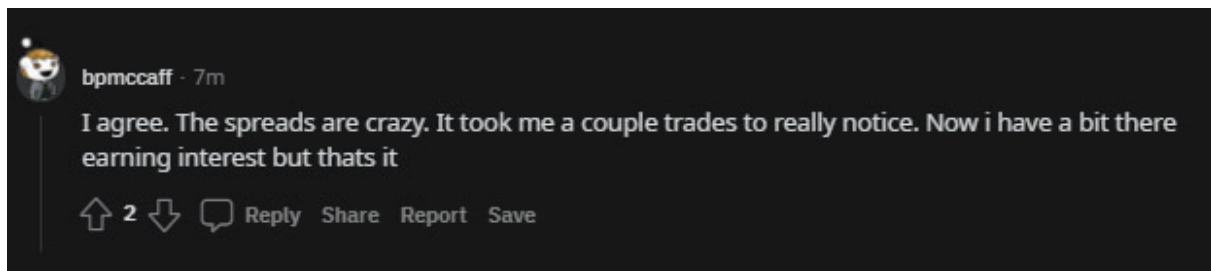
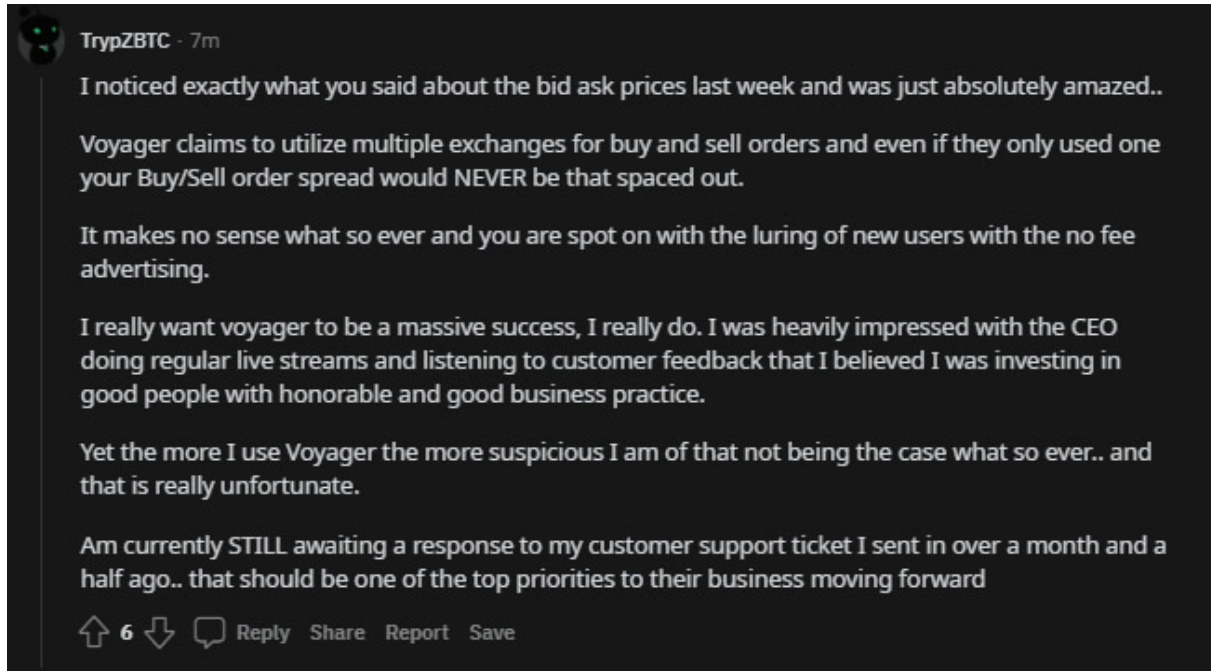
³⁹ https://www.reddit.com/r/Invest_Voyager/comments/ls44qy/trading_with_voyager_tradingview/



40

40

https://www.reddit.com/r/VoyagerExchange/comments/myhile/usdc_transfer_cleared_in_10_minutes_see_ya_voyager/



61. The above provides further examples of the public:
- Observing the disparity with how Voyager trades execute

- b. Observing Voyager preying upon new users
 - c. Observing market trends related to their competitors; namely, that the interest rates would compel more users (providing further incentive, if not necessity, for Voyager to take higher-risk, higher-yield activity)
62. These examples of the public misunderstanding, or being led to misunderstand (if even via a lack of easily-provided clarity) continue to the very day of writing of this report⁴¹

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https://www.reddit.com/r/VoyagerExchange/comments/qotgkh/voyager_seems_to_use_a_spread_to_calculate_fees/



r/Invest_Voyager · Posted by u/GringoExpress 5 days ago



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Voyager Constructive Criticism

I want to preface this critique of Voyager by stating I am a Voyager user. An avid one. I've used Coinbase, CB Pro, Kraken, Celsius, KuCoin, Binance when it was available in the US, and even the horrible Robinhood (albeit briefly just to swing trade Doge when it blew up earlier this year). Voyager won. I now use them exclusively for all of my crypto hodls. Their interest rates are typically at or near the top across the board. The user experience of the app is excellent. Super easy to use, very visually appealing. They are the only regulated exchange besides Coinbase. This is very important to me. Their instant deposits work flawlessly. Their KYC process is reasonably quick and their security appears to be some of the best. I love \$VGVF as a stock. I think it offers immense upside with very little downside risk based on its current valuation. The recent partnership with Mark Cuban combined with Voyager's recent talk of 8 million+ share buyback, I'm more convinced than ever this company is an absolute juggernaut in the making. Despite holding several thousand dollars of VGX tokens, I'm not nearly as confident in VGX. I'll get into that below.

I know Voyager has lofty goals of becoming the preeminent "financial lifestyle" app, but they need to focus on becoming a better crypto app in the interim. Here's where, I believe, Voyager MUST improve in order to become the most popular crypto platform right now.

1. Voyager should just remove its limit orders altogether. They are a farce. Both of Voyager's orders options, market AND limit, are both simply market buys. According to Voyager, users' buy orders are filled at the very best price available after being shopped across numerous exchanges, but it's a market order nonetheless. **I've never encountered a single instance of a Voyager limit order executing a single cent below the ask price.** All limit orders only execute at the ask, period, without exception. Placing a limit order in between the bid and ask is just a waste of time. This is one of the most disappointing features of Voyager in my opinion. I'm not trying to knock Voyager too much. I think they're in an amazing position to become what SoFi is trying to become in the U.S. if they execute correctly, but Voyager needs to fix (or remove altogether) their farcical limit orders. They do not at all work like limit orders we are used to in the stock market.

EDIT: it's been mentioned a couple times that leaving limit orders in place is a good idea just for the sake of catching a dip in price without having to watch for it. Definitely a fair point, but the spread between the bid and ask are still irrelevant when it comes to a Voyager limit order.

2. Voyager needs to offer a self insurance opt-in program similar to that which Celsius is offering whereby the user sacrifices a portion of their monthly earned interest (Celsius will be 0.5% - 1%, for example) so that Voyager users actually feel comfortable allowing their coins to sit on Voyager's platform. Yes, Voyager's security appears to be great, however, currently only \$USD on their platform is FDIC insured. Voyager NEEDS to offer a self-insurance opt-in program since users are forced to keep (stake) their coins on Voyager to earn interest. Besides, if their security is as impregnable as they claim, then this self-insurance program would actually benefit Voyager by allowing them to pay slightly less interest to users. I, for one, would immediately sacrifice 1% interest to know my holdings were all completely insured.

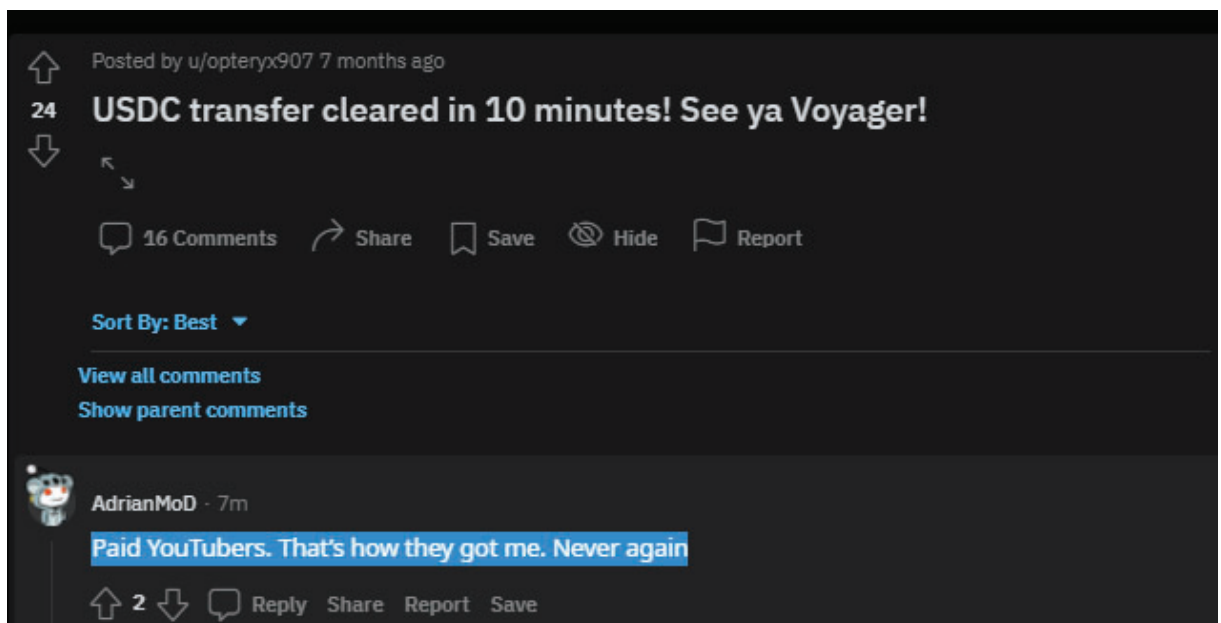
3. Voyager needs to release its debit card as soon as possible. I would be first in line to get it. If I could

bills with my Voyager debit card... my God, I would do it IMMEDIATELY.

4. Voyager should offer a Voyager Pro (a la Coinbase Pro) whereby day traders pay slightly more for access to reduced spreads. This is a NECESSITY if Voyager wants to capture the ever-growing crypto day-trading audience. I've done many tests of Voyager's spreads compared to other platforms. Voyager's certainly aren't the best, but they aren't the worst. It ends up costing about as much to trade on Voyager as it does on Coinbase after you factor in Coinbase's fees. It's really about a wash. If you are a very active trader I unfortunately would recommend Coinbase Pro over Voyager. But Voyager is still absolutely the best for folks who just want to hodl their crypto and not trade, and just earn interest on Voyager all day long. Even for those who swing trade, holding coins over multiple days or weeks and then selling, Voyager is perfectly adequate. But if you're day-trading crypto, Voyager is not your platform, plain and simple. You'll get eaten alive by the spreads.

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63. Even self-professed supporters of Voyager are unable to provide an explanation for Voyager enticing users to their platform suggesting to trade. If it was possible to explain away the reality of Voyager's trades (such as how what Voyager does with customer assets being "explained away" as "loans" or other vague terms), in my experience, those with an interest in defending Voyager would likely rely on such statements: but the math precludes such explaining way.



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⁴² https://www.reddit.com/r/Invest_Voyager/comments/ql9p7w/voyager_constructive_criticism/

⁴³

https://www.reddit.com/r/VoyagerExchange/comments/myhile/usdc_transfer_cleared_in_10_minutes_see_ya_voyager/gvvohb0/

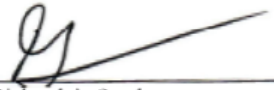
64. These paid YouTubers, often described as “educators”, should have the wherewithal to know that Voyager’s representations regarding trades are not accurate. Surely, had these educators utilized Voyager for day to day trades, they would have the experience to know it was to their own disadvantage to execute such trades on Voyager as opposed to a quantity of other platforms. Despite this, these “influencers” aggressively promote Voyager -- because there is financial incentive to do so in the form of affiliate links. The general public relies upon both representations from Voyager as well as from the “crypto influencers” promoting them as their form of second-source verification of Voyager’s credibility. These “influencers” would not have as much of a lavish livelihood without Voyager affiliate links, and Voyager would not have near as many (plainly misled) users without the (incentivized) vouch to use a platform in a way that would ultimately be to their financial detriment.

VIII. SUMMARY

65. Voyager’s representations, particularly those about commission-free trading, best prices, and risk, are misleading and inaccurate, as demonstrated in this report and substantiated with the attachments to this report.
66. Anybody eligible to sign up for Voyager would be able to perform the same style of trade analysis I performed. There are examples of Reddit users performing similar steps already.
67. The blockchain industry often attracts “new blood” every bull market. Voyager’s aggressive expansion in the late 2020/2021 bull market is, in my estimation, plainly targeting inexperienced cryptocurrency users/investors that would not have the experience to know better. New cryptocurrency users rely on active industry participants (companies such as Voyager, and “educators/influencers”) to provide them with good-faith insight and not mislead them. Voyager’s representations, namely those about commission-free and best price trading, would undoubtedly be understood to mean what they say they mean whether by a cryptocurrency novice or a deeply experienced expert.
68. It is only after trusting companies like Voyager (or the less than integral “educators” with paid incentive to promote them) and learning “the hard way” that Voyager users learn they lose money trading with Voyager. The same applies for any Voyager users

that learn of the realities of the risk of entrusting Voyager with their assets. It is practices such as these that have been a prominent barrier to mass adoption of digital assets: the general public will not trust the blockchain industry until companies in that industry conduct themselves to higher standards.

// ENDS



Richard A. Sanders
Lead Investigator, Principal
CipherBlade

Exhibit A

(CipherBlade Preliminary Expert Report)



CipherBlade

Blockchain Investigation Agency

+1 (732) 890-7874

rich@cipherblade.com

www.cipherblade.com

Curriculum Vitae of **Richard Sanders, CRC**

Forensics reports, Declarations, and other work samples available upon request and NDA signing.

Summary: Combat veteran continuing a sense of mission as a blockchain forensics expert and cryptocurrency cybercrime investigator with experience in dozens of cases. Seen as subject matter expert by legal, law enforcement, and regulatory professionals. Experience working with top law firms performing forensics work and other expertise-based supportive efforts. Experience testifying and writing reports for a diverse array of cases involving cryptocurrency, including OTC deals, theft (as one example, SIM-swaps), and suspect ICO (misappropriation/embezzlement/etc.) disputes. Strong leadership, investigative, and analytical skills foster results.

CipherBlade: Lead Investigator, Co-Founder

- Launched first-of-kind cryptocurrency investigative agency
- Leads team of 8 staff dedicated to uprooting fraud and discovering the truth via the blockchain
- Renowned expert in blockchain forensics (utilizing tools such as Chainalysis, Crystal, or tools developed internally by need,) briefing law enforcement, legal professionals, and senior level exchange executives/compliance staff on complex blockchain transactions, security vulnerabilities, and other rapidly evolving elements of new waves of crime
 - First [Certified Investigative Partner](#) with Chainalysis
- Expert witness with experience leveraging deep knowledge of cryptocurrency criminal methodologies and networks
 - Maintains active infiltration in underground hacker/scammer communities to maintain cutting edge threat intelligence leveraged by AML professionals and law enforcement
 - Developed and maintains list of common tendencies/observations of suspicious blockchain companies, which have provided 100% accuracy in data points upon reviewing ICOs/equivalent for mismanagement, embezzlement, and other crime
 - Serves as trainer and mentor for professionals in the public and private sector regarding fusion of on-chain and off-chain intelligence, leveraging OSINT and other techniques with blockchain forensics expertise to foster an environment in which “they can’t hide”
 - Has a 100% success rate in unveiling undisclosed cryptocurrencies in divorce cases
- Lead investigator for dozens of cryptocurrency scams and hacks, most notably the ‘OGUsers’ ring with many arrests in 2018
 - As a lead investigator, is involved throughout full case lifecycle, from the time of incident through prosecution
 - Assists affected parties with stabilizing upon breach and gathering initial forensics data
 - Generates law enforcement reports in a renowned “pretty box with a ribbon” format, greatly enhancing likelihood that reports are actionable and serving as a catalyst for law enforcement action on highly complex cases that often lack past “playbook precedent”

- Conducts investigation of person(s) of interest for such incidents, including social engineering of social engineers, and feeding identifying data to law enforcement which [led to the arrests](#) of many simswappers via REACT and the FBI
- Assists prosecutors by feeding evidence and opinion in order to ensure person(s) responsible for these incidents [are held appropriately accountable](#)
- Assists victims and legal counsel by generating Declarations, often enabling and expediting asset recovery after arrests and asset seizure
- Advisor for top-tier blockchain projects, such as Dusk and ChromaWay
- Leverages blockchain, regulatory, and cyber knowledge to serve exchange clients such as Bitbuy with [solveny audits](#)
- Provides public-facing expert research and opinion on controversial matters in the blockchain industry, such as the [Coinomi vulnerability](#) and [ShapeShift/WSJ dispute](#)
- Speaks at events and panels such as [Blockchain In The Burgh](#) to raise awareness about the importance of preventative security, AML, and public safety considerations
- Provides insight and training to numerous LEAs on complex issues such as BECs, elder abuse/fraud, romance scams, money mules, and other typologies that require additional external expertise

Crypto Defender's Alliance: Leadership Team

- Selected to be one of five administrators of [Crypto Defenders Alliance \(CDA\)](#), an organization comprised of executives and AML/Compliance/Legal staff from nearly all cryptocurrency exchanges which seeks to thwart fraud involving cryptocurrency
- Observes best practices from work with CipherBlade clients and/or in the course of CipherBlade investigations and fields requests for bleeding-edge insight on complex topics such as mixers beneficial to even well-known, compliant exchanges such as Coinbase
- Led initiative to significantly bolster representation of member organizations in CDA based upon observing a need for representation from a particular continent (Africa), resulting in adding the majority of cryptocurrency exchanges focused in that region and uprooting untold millions in scam laundering
- Manages intra-exchange communication to combat ML and share best practices in the premiere industry self-regulatory organization

Anti-Human Trafficking Intelligence Initiative: Blockchain Forensics and Industry/Law Enforcement Liaison

- Led initiative to significantly bolster representation of member organizations in ATII based upon observing a need for representation from particular cryptocurrency exchange and service typologies, with a special emphasis on P2P trading platforms and exchanges identified in the course of CSEM investigations
- On numerous occasions, acted upon intelligence provided within ATII that included Bitcoin wallet addresses pulled from dark websites soliciting and distributing CSEM. As just one example of efficacy and efficiency, coordinated dusting attack targeting 46 different child exploitation sites (at a \$36 self-funded cost and with 15 minutes of effort) which resulted in data able to unveil thousands of CSEM purchasers and identify where the CSEM distributors were laundering funds
- Upon unprecedented results, was asked within months of membership to join ATII's Advisory team
- Participated in Follow Money Fight Slavery 2021 Summit on the [Cryptocurrency Kiosk and Bitcoin ATM Panel](#)

Educational Qualifications and Professional Certifications

Mr. Sanders earned a Bachelor of Science degree in Homeland Security while on active duty with the US Army. Despite maintaining a work schedule that far exceeded the typical "9 to 5," he devoted almost the entirety of his off duty hours to utilizing the educational benefits provided to him as a service member to exceed the standard with a 3.7 GPA. He holds numerous

awards, affiliations, and memberships in a variety of functional areas, mostly within military and security work as well as philanthropic undertakings. The most notable of these is a CORE credential from Harvard Business School extension. Mr. Sanders holds a Certified Blockchain and Law Professional with the Blockchain Council as well as Certified Bitcoin Professional certification.

Mr. Sanders also holds a Chainalysis Reactor Certification, a course ran by the firm which provides the forensics tool most frequently utilized in blockchain forensics. During this course, Chainalysis staff shared that Reactor is a tool that presents data; analysis is still up to the analyst, and referenced Mr. Sanders as one of the top analysts. Mr. Sanders attended the first Chainalysis CISC course by request and provided immense helpful feedback. Minimal formal training exists for blockchain forensics, and *zero* training exists that covers the full spectrum, marrying on-chain and off-chain observations into a comprehensive skillset. Mr. Sanders has been requested to develop training for CDA, and is in discussions to begin guest lecturing. In short, Mr. Sanders is creating the educational qualifications.

- Certified Blockchain and Law Professional, Blockchain Council
- Chainalysis Investigation Specialist Certification, Chainalysis
- Certified Bitcoin Professional, CryptoCurrency Certification Consortium (C4)
- Chainalysis Reactor Certified Professional, Chainalysis
- HBX CORE, Harvard Business School

Other experience and education available on [LinkedIn](#)

Mr. Sanders in Press/Media

Mr. Sanders is in increasing high-demand for quotes for articles, podcasts, and interviews. Below are some of a continually growing list of the aforementioned:

- <https://www.coindesk.com/cipherblade-okex-huobi-csem-morphtoken>
- <https://bravenewcoin.com/insights/podcasts/the-blockchain-detective-taking-on-elite-cybercriminals-and-owning-them>
- <https://thenews.asia/interview-with-rich-sanders-okex-and-market-transparency/>
- <https://decrypt.co/29865/meet-the-forensics-expert-who-tracks-stolen-bitcoin>
- <https://www.coindesk.com/crypto-scam-apps-in-app-stores>
- <https://decrypt.co/17103/forensic-investigator-sudden-shut-down-of-the-coss-exchange-looks-suspicious>
- <https://cryptobriefing.com/hitbtc-insolvent-scams-users-cybercrime/>
- <https://anchor.fm/scottcbusiness/episodes/Discussing-Cipherblade-With-Richard-Sanders-ebi2ot>
- <https://mondovisione.com/media-and-resources/news/chainalysis-launches-certified-investigative-partnership-program-to-meet-demand>
- <https://www.financemagnates.com/cryptocurrency/news/bitbuy-conducts-third-party-audit-launches-otc-desk/>
- <https://unchainedpodcast.com/how-to-keep-your-crypto-from-being-stolen-via-your-phone/>

Summary of Expert Witness Experience

Mr. Sanders has served as an expert for either or both Plaintiff and Defendants in cases involving, as some examples:

- Divorce
- ICO disputes against “soft exits” or other mismanagement
- Cases against ICOs (including Enforcement actions) and VCs/funds
- SIM swapping and other theft
- Cryptocurrency exchange account compromises
- OTC disputes
- Cryptocurrency taxes

- Immigration
- Source of funds
- Misappropriation/embezzlement
- Cryptocurrency exchanges
- Fraud
- Hacks
- AML/Compliance

Detailed case experience is available upon request.

Exhibit B

(CipherBlade Preliminary Expert Report)



2 Alhambra Plaza
Suite 601
Coral Gables, FL 33134
Office: (305) 740-1423
Direct: (786) 309-9585

Partner in charge and of record: Adam M. Moskowitz

Mr Richard Sanders
CipherBlade LLC
301 Grant Street, Office 270
Pittsburgh, Pennsylvania 15219
United States of America

By email to: rich@cipherblade.com

July 16, 2021

Dear Mr. Sanders:

Letter of Instruction Re: Mark Cassidy v. Voyager Digital Ltd., et al.

Thank you for agreeing to act as an expert in this matter.

This Letter of Instruction appoints and instructs you to carry out such investigations and inspections as are currently feasible, prior to disclosure of Defendants' documents, data, software and systems, and availability of other evidence, to produce an independent preliminary expert's report on behalf of our client, the Plaintiff, CASSIDY, in respect of the Complaint to be filed in due course by The Moskowitz Law Firm, PLLC, as captioned above. Any written reports or other documents that you may prepare are to be used only for the purpose of this Litigation and may not be published or used or disseminated in whole or in part for any other purpose without our prior written consent.

1. The Parties

This letter constitutes a retainer agreement ("Agreement") between The Moskowitz Law Firm, PLLC ("Counsel" or "Clients") as counsel for the class action plaintiffs ("Plaintiffs") in the subject litigation, and Richard Sanders and CipherBlade, LLC (collectively, "CipherBlade"), under which you will provide litigation consulting and expert testimony services in connection with the above-referenced matter. At time of writing, it is not yet known which attorneys will act for VOYAGER in this matter, but we will advise you as soon as known.

2. Background and Allegations

In regard to the issues upon which we request and instruct you to opine, in the field of your expertise, the background to and the allegations in this case are in summary as follows:

- Voyager, through its Voyager Platform, offers investors, developers and platform providers a fully functional suite of APIs and mobile apps to allow anyone who is legally able to do so the ability to trade, invest, earn and secure digital assets across multiple types of digital assets. According to its creators, Voyager “is a publicly traded holding company whose subsidiaries operate a crypto-asset platform that provides retail and institutional investors with a turnkey solution to trade crypto assets. The Voyager Platform provides its customers with competitive price execution through its smart order router and as well as a custody solution on a wide choice of popular crypto-assets. Voyager was founded by established Wall Street and Silicon Valley entrepreneurs who teamed to bring a better, more transparent, and cost-efficient alternative for trading crypto-assets to the marketplace.”
- VDL, one of Voyager’s subsidiaries, acts as a “crypto broker,” being a digital agent broker that facilitates users buying and selling of cryptocurrencies delivering deep pools of liquidity. It also offers a single access point to research, manage, trade, and secure cryptocurrencies for novice and sophisticated investors.
- Included prominently throughout Voyager’s uniform marketing representations to its customers is that the Voyager Platform offers trades that are “100% Commission-Free.”
- Voyager’s “100% Commission-Free” representations, however, are false and are reasonably likely to mislead objective consumers acting reasonably under the circumstances. While Voyager does not openly display the commissions it charges on each cryptocurrency trade, Voyagers utilizes various methods to secrete the exorbitant commissions it retains from every trade.
- To effectuate these unfair and deceptive business practices, the Voyager Defendants use proprietary systems they have developed, which they refer to as the “Smart Order Router,” the “Voyager Pricing Engine,” and the “Proprietary Fills Algorithm.”
- In describing the Smart Order Router, the Voyager Defendants maintain that the Voyager Platform “does not let clients post orders directly on the exchanges to which it connects or with the market makers that provide liquidity, but instead its Smart Order Router accepts customer orders and fills them in the market for the customer using its proprietary order routing algorithm.” The Voyager Pricing Engine “calculates the fair market price while constantly analyzing the order books, executions, depth of liquidity, commissions and other proprietary factors across [Voyager’s] liquidity sources and streams this price to its users.
- In reality, and unbeknownst to customers, the Voyager Defendants’ “Smart Order Router,” “Voyager Pricing Engine,” and “Proprietary Fills Algorithm” are designed to be intentionally obscure and to provide Voyager with hidden commissions on every trade that in most cases exceed the disclosed fees and commissions charged by its competitors. Voyager unfairly gains an edge on its competition and overcharges customers by collecting these secret commissions to the detriment of its unknowing customers.
- After being exposed to the Voyager Defendants’ representations that their Platform is “100% Commission-Free,” the Plaintiff registered for an account on the Voyager Platform on March 17, 2021, and in reliance on the Voyager Defendants’

representations, the Plaintiff executed a number of trades on the Voyager Platform, some of which are to be exhibited within the Complaint, for example as screenshots of the Plaintiff's May 11, 2021 'Market Buy trade at Order ID Dx65EW', enclosed herewith at Annex A.

Given that the Complaint has yet to be filed, please bear in mind that the expression of the allegations and claims in the case are provisional at this stage, and are highly likely to evolve in due course, with attendant likelihood of development of issues for you as an expert potentially to address.

3. Issues for you to address

We anticipate and request that you will work as a blockchain forensics expert in consultation and co-ordination with Dr Stephen Castell CITP, of *Castell Consulting*, the computer evidence, software and systems procurement, development, performance and quality expert whom we are also retaining, with instructions *inter alia* to work with, but independently of, you, to monitor, record, write-up and analyse the concurrent test trades that you will carry out using and operating the Voyager App and certain other cryptocurrency trading platforms.

We request and instruct you to

- Review the Complaint, in particular the screenshots enclosed herewith at Annex A, together with consideration of initial case documentation that we provide to you.
- Carry out and record a representative series of concurrent test trades using and operating the Voyager App and certain other cryptocurrency trading platforms. We will discuss and agree with you appropriate arrangements to achieve this, for example as regards setting-up identities, subscriptions, logons, and funds to carry out these representative test trades.
- Produce blockchain forensic examinations by way of provisional analyses, findings, conclusions and opinions, giving such insights as may be sensibly achievable based on both the restricted documentation available prior to discovery and disclosure and relying on the data obtained from the concurrent test trades that you will carry out.

Notwithstanding the above, if having read this Letter of Instruction, you feel that you may not have the appropriate experience or expertise to deal with these matters, please let us know immediately.

4. Expert's Duties

It is understood that (i) you will make reasonable effort to be available upon reasonable advance notice; (ii) you will keep confidential all information obtained, or analyses developed, in connection with this or any related litigation with respect to which we may seek your advice and counsel; (iii) you will use such confidential information solely in connection with this engagement on behalf of the Clients; (iv) you will preserve any written materials, including emails, generated or received in connection with this engagement; (v) you will not in the future consult for, or otherwise represent, any other person or entity with an interest adverse to the Clients' interests in or concerning the pending Litigation, or the events or occurrences out of which the pending Litigation arises; and (vi) you will keep confidential your retention in this

matter, unless and until you are identified in court papers as a testifying expert, or Counsel otherwise authorizes you to breach this confidentiality.

It is specifically understood that communications with Counsel that identify facts or data that have been provided to you, and which you considered in forming your opinions, as well as communications that identify assumptions provided by Counsel and upon which you relied in forming the opinions in your report, may become discoverable.

You agree that: (i) you will not prepare any draft opinion or report without Counsel's consent (regardless of whether the draft is for internal purposes or to share with others); (ii) you will not share any draft opinion or report, or any notes, with any other person without Counsel's consents; and (iii) every draft opinion or report will bear the following legend: "THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED".

It is further understood that, if called upon to provide a written report of your procedures and findings and to supply expert testimony at deposition, trial, or other hearings, your report will need to comply with federal and local court rules or procedures, if any, regarding expert reports, and, in connection with preparation of a report, opinion, or testimony on a matter, you will need to perform those procedures that you consider necessary to express a professional conclusion. Counsel may revise the scope of your work at any time during the course of our engagement. You agree to provide copies of all your working papers and work product to Counsel and the conclusion of your services.

5. Your report

As emphasised above, you are appointed and instructed to carry out such investigations and inspections as are currently feasible, including the concurrent test trades that you will carry out, prior to disclosure of Defendants' documents, data, software and systems, and availability of other evidence. We therefore instruct, acknowledge and accept that the independent expert's report that we wish you to produce will at this stage be of a preliminary nature.

Notwithstanding its provisional status, the report provided by you must comply with the applicable requirements of the Federal Rules of Civil Procedure, the Federal Rules of Evidence, and the best practices and guidelines developed by the US National Institute of Justice's Scientific Working Group on Digital Evidence. You acknowledge that the opinions you render in this matter shall be made in good faith and supported by a reasonable amount of research and analysis. Prior to the release of any opinions to the opposition, and the rendering of any testimony, the parties will review the facts and circumstances surrounding your work and opinions. Further, the parties will review and agree, prior to the release of any expert opinion and the rendering of any expert testimony, that the anticipated testimony has a basis in fact and such testimony is both relevant and reliable. Please let us know immediately if, at any time after producing your report, you change your views.

It is also important to let us know promptly if you need to update your report after it has been filed with the court (whether that be the preliminary expert's report envisaged in these instructions, or any future report that may be produced by you for this matter), for example

because new evidence has come to light, so that we may consider whether an amended version of your report or a supplemental report should be served.

6. Timetable

As the Complaint has not yet been filed, there are at this time no court proceedings and therefore there are no court directions in relation, for example, as to when expert reports must be ready. However, it would be helpful if you could proceed immediately with your work, with a target to produce a draft of your preliminary expert's report within the next two months. Please let us know immediately if this target at any time appears to you to become unworkable for any reason.

The term of this retention is from the Effective Date to (i) termination of this retention by either party by giving written notice to the other (such termination shall be effective on the date that the party receives the notice in fact); (ii) the completion of the services; or (iii) Client's receipt of the final invoice for professional fees.

7. Next steps, and Fees

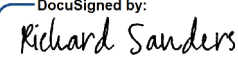
If you accept these instructions, please let us know:

- (a) That you confirm that you have had no prior dealings with any of the parties which could cause a conflict of interest.
- (b) When you anticipate completing your report, and if you envisage any difficulty with the target to produce a draft of your preliminary expert's report within the next two weeks.
- (c) That you confirm your earlier budgetary estimate that the likely costs of providing your preliminary expert's report will be a maximum of \$7,500 (seven thousand five hundred US Dollars). Please say at the earliest opportunity if it appears at any time that your fees in the event and in the out-turn of the work that you undertake pursuant to these instructions are likely to exceed your budgetary estimate of \$7,500.

Subject to these confirmations, we will immediately disburse to you, as you have requested, 25% x \$7,500 = \$ 1,875 as an up-front good faith payment on account; and we agree that beyond that we will pay your Invoices to us within 30 calendar days of receipt.

We understand that your fee is not contingent upon the final results and you do not warrant or predict results or final developments in this matter.

We look forward to hearing from you.

Yours faithfully, Adam M. Moskowitz, Partner, The Moskowitz Law Firm, PLLC.	ACCEPTED BY: Richard Sanders, CinherBlade LLC <small>DocuSigned by:</small>  By <u>36FA655E3FB545F...</u> Date: <u>7/19/2021</u>
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Enclosures: - Annex A: Plaintiff's screenshots, May 11, 2021 'Market Buy trade at Order ID Dx65EW'.

Exhibit C

(CipherBlade Preliminary Expert Report)

This file contains a list of all cluster exposures of the cluster identified by the following root address:

1A5PFH8NdhLy1raKXKxFoqUgMAPUaqivqp

This cluster is also known by the following name:

InvestVoyager.com

Each row represents the exposure that this cluster has with a particular counterparty.

Counterparty Root Address: The counterparty cluster root address.

Counterparty Name: The name of the counterparty if known.

Counterparty Org Name: The organization's name for the counterparty if any.

Counterparty Category: The category of the counterparty if known.

Directly Sent: Value sent directly to a counterparty.

Directly Received: Value received directly from a counterparty.

Indirectly Sent: Value sent indirectly to a counterparty.

Indirectly Received: Value received indirectly from a counterparty.

Counterparty Root Address	Counterparty Name	Counterparty Org Name	Counterparty Category	Directly Sent	Directly Received	Indirectly Sent	Indirectly Received
3KSggJwfH2uy21Y6SrTboUcxgDd6	unnamed s			0.002531		0.002531	
3MxXs3Z3TtRQZotq3oE5Vp2n4hH	unnamed s			0.004181		0.004181	
13i3hvDAALJWtxKL5S9SocdyaWN	unnamed s			0.008139		0.008139	
1PykLeAtdXu9tzWjN4B1y93nnNiG	unnamed s			0.001722		0.001722	
3LgybuU6fwZay74qhvJzY4feKQqx	unnamed service					0.005	
1JD8a6jqkiesiAkoGUAMB7FxDqqs	unnamed s			0.00409		0.00409	
3BrtdXdkq7YysMs9SivgSoP4EN6vG	unnamed s			0.019302		0.024302	
36ybwtpYhfRrkEfaPpUnxrSYsXoA	unnamed s			0.061631		0.061631	
1FgkypgnEqHjrViw6m2Myv7S62m	unnamed s			0.0005		0.0005	
1BYrY696S	BitFin-Profit.com	scam		0.005684		0.005684	
162a8SgmShEdh6seVP1hSh6oY1y	unnamed s			0.001738		0.001738	
3AdZb32ZCdqtWvwTKbeHmLZiykr	unnamed s			0.013127		0.013127	
32D3o5Q3JVZ3qWAtjB665Sq54R	unnamed service					0.015	
3KVoVaPeDZLJFCzz9dyF2nw7rSapj	unnamed service					0.155	
3Ea6vw9XPLg6jLaFRFPQUxB2djXo	unnamed service					0.005	
1FiMEvYs5zXqjzwBVNwArz1Hnrit	unnamed s			0.000863		0.000863	
3CbyFS9xijj	Beurax.com	scam		0.206399		0.281399	
1Jb54NRHcA17ZhAWb4EEiNteMn	unnamed s			0.002406		0.117406	
3Lcb5Cxptj	Vinex.network	exchange		0.043072		0.043072	
3K1hRk3K4DsDDRfVSAxDZSUTqfT	unnamed s			1.300505		2.045505	
1KK6MhmvHWftd3BAvJPgDyHqCs	unnamed service					0.01	
385FJC2fQDHANwrB18X745poKw	unnamed s			0.133792		0.143792	
3EguRmvKEELoyUBzq9cKfX7pRel	unnamed s			0.021141		0.021141	
394HMw5ZnfqgoDD2PhEPHgKy5t	unnamed s			0.125		0.135	
11eeMB2t	Bitnuvem.com	exchange				0.26	
3HkevfL5iYNRsiyESQASoGmE3isF6	unnamed s			0.049117		0.074117	
14dr13aqq	Coinmotion.com	exchange		0.028076		0.103076	
3Femjk716ctbFKmFcoErA2skw9D	unnamed service						0.005
1EjbxKiFf2FmUtVKD7XFvXLxpW8P	unnamed s			0.01045		0.01045	
19rHumBrC	Midland City Market	darknet market		0.001278		0.001278	
3Ag6VSUcWvPDJ6Cz82TexMFS8tE	unnamed s			0.00621		0.01121	

19vRqiFxF\ MercadoBitcoin.com.b exchange	0.001264	0.246264	
bc1qxcg08npzk9wt5yddvtxsgrhq9v unnamed s	0.001696	0.001696	
1DQoyyxYyK1fyjmEw9LFi81NSKh4 unnamed s	0.011891	0.146891	
31oYFVAkc2TZHfrwXwjmxNf8zbD unnamed s	0.047222	0.052222	
18XtLeuQmWMq3XgekzDD7F3fYjl unnamed s	0.012919	0.012919	
1Hf4X1wv\ Bitflyer.com exchange	0.008497	0.573497	0.365
bc1qq6z7gpa37r7m60u7nye494c7 unnamed service		0.005	
1HmRBNkikqjm9AqmHgVSQ8qtnF unnamed service		0.005	
14UpoWT2fAzGqR9EoJc9LnUtinyz unnamed s	0.002728	0.002728	
16omr5mMRbCM5U4PXfgp3ttsdX unnamed s	0.147442	0.157442	
36pGw6RKDajFYoo2CVtd3ffLyoQy unnamed s	0.005012	0.005012	
1PuxTMpMTp4PfaP3z59mHGb5u\ unnamed s	0.006358	0.006358	
17dPYT2J8 Bitkan.cc exchange		0.045	0.035
1NvbUHHN SpectroCoin.com exchange	0.001296	0.011296	
1CGeoGj1mhdMpYSvwotnpDof9M unnamed service		0.03	
bc1qjjcjgrygxhqzvlIs396e5xrav0v3 unnamed s	0.046391	0.061391	
34Q9x8PpgZs4xNJyX1HTvpUuM5F unnamed s	0.002314	0.002314	
121JKycF49azRNydoTqZ9p6Widbx unnamed service		0.12	
3Qse8seS95csJzZwVk9paJBSqgL2v unnamed service		0.005	
bc1qetf3cdykuwvucrnw0209e6nfj unnamed s	0.001109	0.001109	
38jZQHdF9iRjPuzNq18y3FdbCz3d unnamed service		0.01	0.015
15fUHLdSf4foBayDAFVcj73scK3Nt unnamed service		0.115	
1HYtksnVuYR8KsKrtDcobG25NmV unnamed s	0.004183	0.004183	
1JojQz1Dat5LgJCXRrwsqqtpMhvQ unnamed s	0.00264	0.00264	
1GvgBV9QMeuoRq2iiaEf3gNB6CU unnamed s	0.0536	0.0536	
1JpA8hRECIaXlZBdaM8uiW16K2D unnamed s	0.041222	0.941222	
1NB194ABEPPUF4UYMGoeii1Koid unnamed service		0.225	
12Qb2WT4DFN7JZsBQ8apGo5fwZ unnamed s	0.000871	0.000871	
1DEi9qTAa ArlingtonLtd.com scam	0.001855	0.001855	
179Ns3Bb\ 1xBit.com gambling	0.024512	0.294512	
1MRT5rtUkEKWoXNhiUtTWYSniV unnamed s	0.003143	0.003143	
3EFwE3irdqRTFsoHgLCmUhkgbd unnamed s	1.161047	1.371047	
1DsJMt736 CardPay.com merchant services		0.005	
3Na9V3JGiwWRGeCmowj3EJFD7S unnamed service			0.05
35j4WzbtSdpRtMnTsieoZC68wYRf unnamed service		0.1	
13bqM6Ty YoBit.net exchange	0.733491	1.038491	0.025
bc1q2kl0g5 Safir.com scam		0.035	
19NV05Tq\ Alameda-Research.cor exchange		0.05	8.41
14f1TYhojqojBamqJ9eNCzdpSNZb unnamed s	0.012489	0.012489	
1EzCcTzpc\ Unknown - OTC relate exchange		0.225	1.345
1ESX1mWXE2ghv4rfyzstXmFqkVr unnamed s	0.001674	0.001674	
32K9jnJXsh9wGhojJC1BxHFKmcyn unnamed s	0.001771	0.001771	
1EAMFGeZ CoinPal.eu high risk ex	0.000118	0.000118	
1HEbhxYWPgFm6PaQFQ4sgYSQ3t unnamed s	0.0031	0.0031	
33sQnQkQtRg82EXuA5d6azdR6bT unnamed s	0.027537	0.027537	
3DB9tbpvWaAZ22gDEGeMfaopnS unnamed s	0.002869	0.002869	
1Jct5NyXebnHvUA2KZRqk8FzJmK' unnamed service		0.045	

1DrMUEjYWtMpUJ9X68oqvwGpw unnamed s	0.000847	0.000847	
14gWr1it6VfLBym4zcZ2SeGr2Nn9 unnamed service		0.005	
bc1qn0ct16sv544xnzdkwjsk6nxwft unnamed service			0.045
1NvSP3Lhq Treddr.org	high risk exchange	0.195	
1MjSJWvZl Remitano.com	p2p exchar	21.01353	0.015
1EcvtByUf Elon-Start.com	scam	0.0506	
1Ka7wHST Alfa.cash	exchange	0.005	
1JzLdPwKy Bit2Me.com	exchange	0.259631	
3Mk2v3SZkmeEJRAG8pNSk1Nfqp unnamed s	0.002931	0.002931	
14CoNVrdf Capitalist.net	high risk exchange	0.025	
35wTyBhul Blockchain.com	exchange	4.04469	20.355
1JhXJcY99oJY37gH1JWBTSKgsred unnamed s	0.001556	0.001556	
3CpaqEr89dMUasjj6m4kpPWxW6 unnamed s	0.016784	0.016784	
bc1qcrpkv7z80pxqaf205yp5x4xrw unnamed s	0.001168	0.001168	
3CktP3eTZGeV9zMatyCv5cDhVjFf unnamed service		0.075	
1BPX2UncW7FnyE2Nf8CqFyop26c unnamed s	0.006139	0.006139	
12Cxiy4zoLhv3hr8fw872h6UJJUxP unnamed service		0.02	
1F42xewVc FreiExchange.com	exchange	0.209862	
353fQtFZ48MqyXKDW17FpAzXXQ unnamed s	0.000995	0.000995	
3Q2FY263h7XgXiWrHSx576ySJXM unnamed s	0.004036	0.034036	
36jhhQoCXNH1nvZmTp8LVSurh6L unnamed service		0.335	
3MohFRDvH92Mw9PFcFVX1SJ961 unnamed service		0.03	
31kzrYKYUYrBkDLbpXaerZniVSykG unnamed s	0.006418	0.006418	
bc1q063ywyw4mcwpuyw4jvfp65j5 unnamed s	0.051299	0.056299	
1M6jZJ8jjV Coineal.com	exchange	0.513422	
3HHmT56SkXfpTEUmyPncf39soPn unnamed s	0.002887	0.002887	
124i2uNuo Bybit.com	exchange	173.4272	0.29
1GwcJABjpJdtBevo1C4tKtyfGyhuh unnamed s	0.00863	0.00863	
37s8wLduç AuraeLifestyle.com	exchange	0.06416	
39G3BQIAv StakedWallet.io	exchange	0.261438	
3JK79Yk4Yi BTSE.com	exchange	3.649873	5.605
1DZUvCjcY Daily Stormer	other	0.003055	
1KjGN7dkJ8mjg3PuvBCTjecYDb9tg unnamed s	0.00255	0.03255	
1CpCfv26FI777Coin.com	gambling	0.005	
3Dmq4aQcmAeixKBG1badoG7b2 unnamed service		0.005	
37eY2X5gn7JrSw3QfzxtV195FLpqv unnamed service			0.015
3Gf7Ubuhy CloudTokenWallet.con	scam	0.008277	
19m2wcW9S6ma5mdSDFGf5V3Sf unnamed service		0.015	
113Ax5HTxdGFyFwdWw4EmYTwnff4WFRdZ3	3.288658	3.468658	
3MY9zybuwu7WcnZRjPxWZVbyG(unnamed s	0.000862	0.000862	
3FvWRe38 MyPatricia.co	exchange	1.117689	0.04
39z4gP1YPi6SkVmTixmeue9bET64 unnamed service		0.005	
3AJNpmW Zrobank.com.br	exchange	0.015	
1KcqeqiEsWM3cs7Rdsq8JoLwXrKi unnamed service		0.015	
33yfoJZS9xa2TYCXgeByhiXHYHQ4 unnamed s	0.494846	0.544846	
3E5MLYpK Vauld.com	exchange	8.387635	0.005
31wJ8Ytxm7MXWroAybXBmT8GS unnamed s	0.00087	0.00087	

1FKhtSjNzzMz9ATDmEuX2GN3Cn2unnamed s	0.04617	0.04617	
15cffdyM4UHBMR47CJkkpM2LGGunnamed s	0.001815	0.001815	
12RUHxG4 StarFXTrade.com scam	0.064944	0.064944	
1APtUkdCYFwMMCMPhxUADn49unnamed s	0.002571	0.002571	
1MmSy2RGLgXUYwKWwFD2x8f3Eunnamed service		0.125	
16f5J7mUPaRzJh9sbrSbCPUYn4rSunnamed service		0.005	
1HJu4LBAp71bUdsXDVEPq7JXjsVjunnamed s	0.002013	0.002013	
1CCCMgxC Betcoin.ag gambling	0.252799	0.272799	
1Q1So4svzrDU96HdZkT2RDeUYNunnamed service		0.015	
3HmLXhZvBaz9hFQ3tpneBbD776kunnamed s	0.044826	0.044826	
16JnQtUUV17LPsM5RKO6gdG2Ywunnamed s	0.003119	0.003119	
1FW2RPc4iAQMGqEu6rs2tEEwz9zunnamed s	0.086391	0.086391	
3BzfahFcTH722WBiATxFzvqxjstqwunnamed s	0.388395	0.403395	
3CaKmrN9tXha3axGLuZJuoSmu5Dunnamed s	0.002997	0.002997	
1GF7tb3TeSNZg2Xz8dGMSzhT5sgrunnamed s	0.00265	0.00265	
bc1qfn2dralqzvI9kycxkkdqzcwegvunnamed s	0.000545	0.090545	
15hTqNp3B9CjQkLWS7eyKshpHtJunnamed s	0.002782	0.002782	
38Tti9yCQvQzPYSKmx1AcfBA4adqunnamed s	0.000172	0.000172	
397TTqd2hWFwqXoyfEz7KRTXHJBunnamed s	0.000526	0.000526	
1CWLNZV2JBbXGiAyG42AayK3gygunnamed s	0.05	0.05	
16NRbcfeif Wisenex.com exchange	0.042321	0.047321	
3463GtcgsC1P2DpUdAqBSpzFV48iunnamed service			0.005
3HKgijJtCyyKwm5Xoybeabk66FE9unnamed s	0.001362	0.001362	
33gD2hQPNE8qrMwJZdpHZqXjmcunnamed s	0.002725	0.002725	
3LjsdpqBi8KwysRjGP8DaewZa2ULunnamed s	0.005737	0.005737	
1LQkopHckYPeznXDE7tDZp9Le73unnamed s	0.012105	0.012105	
1MPxhNks Eobot.com mining poc	0.002004	0.002004	
12zbMvivw AltCoinTrader.co.za exchange	0.0832	0.1682	
3Ho76w8DEptVVDp5cgBKrSvkYWunnamed s	0.002009	0.002009	
35UpZeJjPNbmB5118iu6NtVdG4wunnamed service			0.005
35iz9SjxQ13H1FtJF114hsi7tVCuQyunnamed s	0.003545	0.003545	
1NiSnhVnhM6JX4QrsijbaSzTNNzvunnamed s	0.00602	0.00602	
3PATJ4VW Wiseling.com scam	0.063717	0.118717	
bc1q007ktfwu0uvvgp4h2ngsnweunnamed s	0.300137	0.300137	
1159gPPkk Binance.co.ug exchange		0.005	
3L5TN7azjJ UpStake.com scam	0.479642	0.479642	
17irZp3osF Graviex.net high risk ex	0.280841	0.400841	
12SF14zCj8F2PNgRRTZUsheBy4tujunnamed service		0.005	
3EpWQ9nC Bestcoin.cc high risk ex	0.002183	0.072183	
12TxTR4H CoinsPaid.com merchant s	22.84716	29.14716	0.205
35cyEo8vs8E5Bm4VbVf4ehzTsqq4sunnamed s	0.109282	0.109282	
19mNAKRWCDNoGgbYzo9nfvdvpunnamed s	0.09291	0.09291	
3DxoHKwrnpS1rwRYhcxH3tBZDtzunnamed s	0.019963	0.019963	
34CjGcV152AmqfKbwrSk2J8LnNjunnamed service		0.005	
3F7LMHvdCCT4jrqq9vy5oksZ3nnv6unnamed s	2.727284	4.417284	0.005
15vvtAvb5xZnmLu8yXsxTjtEWBKotunnamed s	0.000877	0.000877	
1NZuJQoKWCuHKag8N3Aykv7jjxSjunnamed service		0.015	

36VrhWLeNJw43tfMNho7jYoikcQlunnamed s	0.0019	0.0019	
1GqJY68iniK9VZY6j2xoEYqgsdyUuunnamed s	0.000968	0.000968	
1J2WpKBXiBqJrqnFCF6bAh8oCbFvunnamed service		0.05	
bc1q5cglx06z560gefkwyn590ngszunnamed s	0.000742	0.000742	
14LdcGmSQwBKhcziDxxoUZB8Bcunnamed s	0.059223	0.094223	
1GSnEH7JMjA62SeJxBPEDEBdpEVunnamed s	0.00323	0.00323	
1iLS92j87aZX3DGUtmLD9rbGqqycunnamed s	0.011938	0.011938	
1PiFCa4SVYtR9t82XSnSn58ZGRdgvunnamed s	0.001576	0.001576	
3LLCW2mM KriptoFuture.com scam	0.007081	0.017081	
372g49ypSjfU47RK1AFqgiFBNhUjunnamed s	0.004467	0.004467	
1N3sdjZLtbH73f7xMotgDAHD1RGunnamed service		0.025	
1EcKjT5yFzjkdx93FStzDC5M5ke4Eunnamed s	0.003145	0.003145	
1PyVpYaghynxVqtYBKAZk8Bh4yezunnamed s	0.001969	0.001969	
1EBxFTS1tokmeucXtFCU7JG1jWvgunnamed service			0.005
121SexEkuGG6uYCnaBeJXb8Gzy3unnamed s	0.017478	0.017478	
3EpAoixkwcQFQWWfZndvFZL9AFunnamed service			0.01
1NeQRg5M Swiped fraud shop	0.001413	0.066413	
3ErJs869cBoqZNpd3RHAfc9y9r8Junnamed s	0.00245	0.00245	
1MPtV8XHfJ7MBfXyq7JVuyEyxLHunnamed s	0.001759	0.001759	
17TJ2fV6xagrE2YyyTqkXbvPLn1bdunnamed service		0.19	
3M8a8f27BNsCM7XcFA313DEzf11unnamed s	0.001487	0.001487	
1LA9YnPW2pkUgz11EoYKTMxsQXlunnamed service		0.005	
1Ccb4vrC5: GateHub.net exchange	0.853197	0.853197	
37Mx5f2WgGYG97TWRKyFe8kRKunnamed s	0.000719	0.000719	
1D8kq4k2F7Rzu17iHmcQBMmfRjunnamed s	0.001795	0.001795	
1F3snS9Lj1sYXtt77fghA3kz5fV9Mrunnamed s	0.076521	0.076521	
15xKBrKaZLsKgnYpMwrvhKsVAdEunnamed service		0.035	
1CidQFc4t5numHZbbXHg3bWKBjunnamed s	0.011573	0.011573	
12yWf6kiPrqU48C6j5KecxJJrjdAxunnamed s	0.018229	0.208229	
3MoMhpEmP2mnP4SpV1qsAR1Fsunnamed s	0.027049	0.027049	
1GyYQm63G7dxMQANFQ3cqHorunnamed s	0.013877	0.013877	
1Aag81N7: VideForex.com exchange	2.869833	3.209833	
1CLVSiUM(999Dice.com gambling	0.003904	0.003904	
1Je3RohZT: Coinbase.c Coinbase exchange	889.8902	1287.124	1230.555 1523.434
1DMY9SDrFQ3fAosybLL3XpwUjy2unnamed service		0.005	
1JpHqujvjHRV5JGJdjYKAr4pTpu2cunnamed s	0.021226	0.021226	
3AXFz8QSg3Qi1fWvfAMguLWrUYunnamed service		0.045	
1DAUV4wFZ63DWKVSLaugrWVLSunnamed s	0.001304	0.001304	
3C7c5D6Hchm81vusE2qJvieVA1Lunnamed service		0.025	
1HKbWwkSCMmthA2Fp8FM4Wgunnamed service		0.005	
12joBw5YEPTMWfWit2pvgZqPDyKunnamed service		0.08	
3NM4R4pM3t5Yviy3FJGNbKwGYgunnamed s	0.0008	0.0008	
113aGtCDKfWK6wXvPMjUXxV8Lciunnamed s	56.26341	60.98841	
19zMaBnCUyAAMvdBjXTmVeKFhunnamed s	0.014935	0.014935	
1DYagqyovQdSqhRbKUFQT8hb6scunnamed s	0.004912	0.004912	
17zDJLqWRRJskCrD8sNCjiZyBqnerunnamed s	0.015278	0.015278	
3NeU66QEdLDd1ikdXYgehWA55runnamed service		0.005	

1HSeAdHcHmRxTkZGfaJntpf7Zjb2: unnamed s	0.003285	0.003285	
1odKlv7nxvR6shxCG26gWLS7tTUS: unnamed s	0.067272	0.067272	
122iCR477' Elite-Trade.ltd	scam	0.003155	0.003155
1Liw1Ds2U Coinbene.com	exchange	2.882543	3.367543 3.065
18vLNrPFiDGPb8yqLw83AbAbMB: unnamed s		0.0066	0.0066
1MuskEzLh BTCLive.top	scam	0.005304	0.005304
1H7GC7BB AmazonToken.Pre-Sale scam		0.049065	0.049065
14t53P6ED9YXdBUHE9qXxmdku3f: unnamed s		0.0029	0.0029
3A3mecxQcTCVjbKve9SwuY9GNQ unnamed service			0.005
3DLFqkBZ41GTpWpSJvyFY3U7piF: unnamed s		0.106425	0.106425
3H45wmkc Bitkub.com	exchange	0.024966	0.094966 0.01
bc1q8d9vatp6mtmjudz80gw9fu9z unnamed service			0.14
bc1q6dzys' BC.Game	gambling	0.157601	0.262601
bc1q8jel57nw3rv5qrnpv6h7mn99 unnamed service			0.01
38FjsVydcz1GkWt7iuwnNwYAi13a unnamed s		0.002004	0.002004
168R1FXVqf2TzkeoMJhp1Jmuch8 unnamed s		0.00049	0.00049
18NPK9bY: Livecoin.net	high risk ex	0.256741	0.261741
12omJJvXH Bleutrade.com	exchange		0.005
19th5ZHDl CloudBet.com	gambling	0.114411	2.399411
1QJq6ijdJG Empire Market	darknet m	0.781639	1.281639
3Dbm1wfXfAFDGAYBhc7jSUQWvf: unnamed service			0.01 0.23
19escNLnnxu79UwWstvK8SzJ6cm unnamed s		0.031885	0.031885
17ZRfRZWWhVp3u3HwQTRaWMfH: unnamed service			0.39
15hWy4Nyh8bBXawCV4QzwRzN7: unnamed service			0.005
1J2YZZSXtg Cryptology.com	exchange		0.07
3LguepyPyQE7833KFGnV9pzpeVD unnamed s		0.117519	0.117519
14WiqWGMvU4H32WeYjp3AiUfw unnamed service			0.01
1CTFTyyneq9ofLne9xcezhiy8KDEb unnamed service			0.02
1HBZRbfjel HitBtc.com	exchange	11.64504	31.11504 1.155
37BLgCy5V98kGpqe6ci1ed92KQN unnamed s		0.003369	0.003369
3AHNxn6JjquVC8rt9UZpwzM8aQ: unnamed s		0.000906	0.000906
15qJAUM6 Cex.io	exchange	1.427466	2.022466 0.005
398qEvFVdtDtwQQFdb2ptYxeVvN unnamed s		0.00817	0.00817
1CjHmWuL ElonPromo.site	scam	0.4385	0.4385
1CXYZfSWAtCSfrKFf8eU1m84QLKl unnamed s		0.026093	0.026093
1B2wJ1SzBAXyckeePp1VNNbT5VZ unnamed s		0.001776	0.001776
3LEzCADJy3X6WXm5tj6HFzzX7IEq unnamed s		0.000857	0.000857
3BPn61WgCmm2JJLem2p1eaC26k unnamed s		0.025787	0.025787
16JUCv6zyvS78aHLAFesa1oSMrdt: unnamed s		0.004378	0.004378
1KqeeAv7HcSK4ocKqGA64to1ru/ unnamed service			0.035
1HuYfoEws Hydra Marketplace	darknet m	0.034837	1.029837 0.01
3B7F7REEhyGtPRsS8zdYzRq66zAQ unnamed service			0.015
1Bsdb4iBSt FoxBit.com.br	exchange	0.013074	0.098074 0.01
3H7i6icC4ua2or1a32AU5msdBG6f unnamed service			0.01
1698egyYuADhAtt7Kcsz47oCPteP: unnamed service			0.22
39DrcLmxdEfVWS86Tvpysqq3hzD unnamed service			0.255
37WyieV5LbEEMiWHP8Sm4xr1XK unnamed s		0.0011	0.0011

3AsRcRph2ANSMBFZbe3iruvhHBn unnamed service		0.005
32R2m6rtqnKvfMZKCRi1cVSZMKE unnamed s	0.06574	0.06574
3Q1yv3FPwidMsuekuDjoGFSSy6r unnamed s	0.0067	0.0067
3BHgHKM1 ToRReZ Market darknet ma	0.003491	0.003491
1G5ZVfw9Ak6ts44XiArmsqd78Jm' unnamed s	0.095065	0.095065
1KNFUJjZwyqrCqJxMA75oEmassF' unnamed service		0.03
36Z3Cd1qF FEshop fraud shop	0.092424	0.692424
1KWpsFjwr EconexFinance.com scam		0.01
18Y3ffhhMS5rkDZQwM22aN8ACz unnamed service		0.01
1GKiFE916n3mU1RyqWenoGQUr unnamed service		0.015
355JdiX5QQBNW2jiokjT1xxk3YP1' unnamed service		0.005
1NPsdjysK8nm68mQKJ7AhGxPtk\ unnamed s	0.017427	0.017427
38KjUnGi8\ Coinsbit.io exchange	0.004891	0.004891
1G7937WrZ4KHa3AhvvrYkBkDW1 unnamed s	0.060997	0.095997
1NDCSqdkPERcdxYGKsNvtDVsu2r unnamed s	0.001079	0.001079
1Nx3oh3jT WestWallet.info exchange		0.06
35GVxD3jF OptionsFXTrading.vip scam	0.892395	1.392395
3BL9PC94T SFOX.com exchange		0.2
1HNfamjXpMLnxTfr8J1Q1VAjx7Z3 unnamed s	0.002172	0.022172
1D16KGTvvECtc4gKgVs1TAJN8Gqt unnamed s	0.000655	0.000655
bc1qng0keqn7cq6p8qdt4rjnzdxry\ unnamed service		0.09
14WpM654m9j2eh1arN6Upjh5eb unnamed service		0.7
14gr6v7DG BitoEX.com exchange		0.055
1KEWFoWI Paxful.com p2p exchar	57.74189	129.2519
3KbYbsN1WwT4jkbQ2RY8aUZPPy unnamed service		0.005
1C4FLuYdMqESCbkiwczVKbAX18 unnamed service		0.01
17vBPpPvXBCGDRfH2oGCdZDNhe unnamed service		1.06
3B7iKVieG8DPmAuXvf8ZWfDiWy\ unnamed s	0.005906	0.005906
3GgsGDPJLeuMM6Zt4JzYyEEpAe6 unnamed service		0.015
17eze6HytVVsqM7C2B49ATVwzol unnamed s	0.916947	0.916947
1CXie74CX. SeawestInvestment.co scam	0.002796	0.002796
37G4fC53K78D7sgRxLeN6KFND41 unnamed s	0.0006	0.0006
1CzFdBA2J8QiMGoPAMesy4rdZ2f unnamed s	0.00214	0.00214
1B6zrz4Mv CryptoMKT.com exchange	0.001324	0.006324
19L7WYjGE7jETXxwJVGPd9cGWm unnamed service		0.105
19TFfjaD7WthoUz7BGTsLvLoPZtD unnamed s	0.000833	0.000833
1BhrNoLRT Bithumb.com exchange	0.1059	0.9859
3KBLNCwkzNpmC8XxbkZTrijZ33Qc unnamed s	0.024501	0.024501
1NRg2fKop Tidebit.com exchange		0.005
3Qxf62B71sAqgDyDc79mgPR8nJ2 unnamed service		0.045
3AECszbNdqQwzz1wDZNuub5CF7 unnamed s	0.0041	0.0041
15uEE1xAKNxNZPYgHNEJxTDzan9 unnamed service		0.005
3EQ1xgW2foofBU2gJkwMVuLrLy unnamed service		0.03
3G6Wz3i77pQtxwBkFnmwUB8kjB unnamed service		0.005
38Pfhwy08hw2vg1eVqnMXM9DLI unnamed s	0.000323	0.000323
3Dn7BUBo GoMiner.co scam	0.001442	0.001442
1KwtFvKNmGHNX5aWfH6ogPAYq unnamed s	0.487161	0.487161

1BdAqLhjjc Musk-Club.com	scam	0.40104	0.40104	
bc1qxqhthp20s4j4ua29qv6masyjc	unnamed s	0.008559	0.008559	
1442itHWUtp9FbE5VeUVyvQzv8b	unnamed s	0.003286	0.003286	
3GcQ42tBDcDmaG2MKNmSStmxl	unnamed service		0.005	
1BAigaKGG468tsUJBLETJbSNH3P\	unnamed s	0.003442	0.003442	
13TgM433kFgBehJa5Hw9fVKyogj7	unnamed s	0.000977	0.000977	
1BKUDP7P3BANXKvepZZpHmTe8z	unnamed s	0.003137	0.003137	
14DEd7Dgl OctaFx-Plus.com	scam	0.000933	0.020933	
14odDnBY\ ExpertOptionsTrade.cc	scam	2.015765	2.015765	
1JK55ZVPo7WJH8PAWD8aTuaAb\	unnamed service		0.02	
13GPxKdmoP3Tq1ZeJSgAgnMyjRJ\	unnamed s	0.003498	0.003498	
3LLAzeRnwEqiX17Dyrbd2iyjF9Sghj	unnamed service			0.045
18BfibyUk7qS4dMFZg9Cf3wgRtqc	unnamed s	0.001801	0.031801	
1MwhHrm9LMvSkNodh9CYySbKit	unnamed service			0.01
183WYfYQdd4mAF21S82vC1SDDr	unnamed s	0.004783	0.004783	
bc1q4rrcw0gw6y84w6uqxacqn0v\	unnamed service			0.01
12CFVXKJJK99gW4vZ6wAqmeLb6l	unnamed s	0.000926	0.000926	
3GiZBFW6\ Teqra.com	scam	0.002671	0.002671	
3KtcLbsqgEgUubmnXLhZ8CropGp7	unnamed s	0.018211	0.163211	
1PiKBAfcw6xKkqYAaertGKab8zF7E	unnamed s	0.002888	0.002888	
bc1qtn3tuc5ewtcg5zl79aq4rz3szn	unnamed s	0.023361	0.023361	
3LMcPvssJkYFstCT8MTJzVPea2KF\	unnamed service		0.04	
15nwSE3WcHmLK6K3ktiPfwS1zoV	unnamed service		0.035	
14se6sTpkI WebMoney	merchant s	0.000111	0.145111	
1Etg6EySY\ Bibox.com	exchange	0.185269	0.190269	
bc1qg5332 Bitaroo.com.au	exchange		0.01	
bc1qxsWl0w3ze7y88qvd36kql6l4t\	unnamed s	0.040956	0.040956	
1P1jSNXCFW9Sh7h1aoKGgbGcz3P	unnamed s	0.00219	0.00219	
1Pc9Us837mned5bUJMWyscQ1Hg	unnamed service		0.01	
32MAnDY8 Bitpick.co	gambling	0.003	0.003	
19jiKT196vokPdpD5DzUfEvmQ7o\	unnamed s	0.003908	0.003908	
19FoUSdvz7ndkpezcPoumiHkHyFg	unnamed service		0.005	
1GFktGPAF6dMaQg12vDfdhXLWV	unnamed service		0.005	
1GgPJQMx6xU4evFXfswMCmmin\	unnamed s	0.00338	0.00338	
38S2uvBetbaPUavyaqWHXeEFbDI	unnamed s	2.049369	2.484369	
3EjZJ3fpxql Rekeningku.com	exchange	0.05	0.055	
1Pwf9exMbhAA4KzBYrXGZyLAKek	unnamed service		0.02	
18eSmT2YFHya5x8jkLtQyk5YJ5Fv	unnamed service		0.035	
16sPQKdVwnxEvxsKFLFNR5e7mDI	unnamed s	0.008855	0.008855	
3Cgy1PnwtFmD4LXLpzt9782Y4vl	unnamed service		0.01	
12cF3wQSYx37ee79X7qiFQ5wmS\	unnamed service		0.015	
1BC9mgLV CleoFXHub.com	scam		0.005	
17RSWTeHeFWCXGPHAydsFLvCG7	unnamed s	0.001165	0.001165	
bc1q7j4xayw77ft8njlp3tsfvpw48t\	unnamed s	0.00959	0.00959	
bc1q2fnvqlw9s4flmwk7vzr4v9wfn	unnamed s	0.049562	0.049562	
346n5U6aKz5JWrVK6A671Rpn8oS	unnamed s	0.002365	0.002365	
15ZxC2mNTUB4E22zCAJMpvcvNR4	unnamed s	0.022672	0.022672	

3NMnsWRi CoinLoan.io	other	14.28964	15.01964	
36p7DWCxpZp3dYRHSgqhmtSsWf	unnamed s	0.018147	0.018147	
1Jz1ANtnM BitcoinVideoCasino.co	gambling	2.007878	3.197878	
1GranReBz GlobalCryptoKing.com	scam		0.015	
12goKPWLNVNjhce9qDEAWevd324	unnamed service		0.015	
1ER1ESxi6X9Bv7VQD5RFwTvPhw	unnamed s	0.006589	0.006589	
1NguZ5YEEHjMUTNpTvKtCHZJHsk	unnamed s	0.171811	0.171811	
1MbXnacj5 FXTradeProfit.vip	scam	0.000436	0.000436	
17gHFWmBUrBixLNjppEbCYVfMH	unnamed s	0.049218	0.049218	
33oNWczvUPgDuqo3Nys96Hyqbii	unnamed s	0.040931	0.045931	
3P6Dd2gQ' ByWare.net	high risk exchange		0.005	
1La5QRou4JZFyrBVBmqkuoD5bvjf	unnamed s	0.004146	0.074146	
1DCJ7t8ysYB92juX8VqVaJa7BFETk	unnamed s	0.005312	0.005312	
3321qzvP2 BTCFlash.me	scam	0.187652	0.212652	
3MYCaHPXKw8YHweBfmjBgLMhD	unnamed s	0.055756	0.055756	
1Ajd4m1Nb6iGiX588M2qCFV4RUj	unnamed s	0.022087	0.142087	
3CPiT9VLGK9X7Kc41AKYyWT5H8c	unnamed service			0.01
3LCoLHNYcsKoAVLEzibka9Lvmjn3i	unnamed service			0.01
1ENJDG6MoBRfHXB19Yn5eCZzoXl	unnamed service		0.005	
1RgeNNGZ8m4n1hRAi3iAjpQjnoG	unnamed s	0.001041	0.001041	
3NdZd7chx Giottus.com	exchange		0.11	
12B2ppiXfrTRk13QAr35cVySi4tUo	unnamed s	0.004198	0.094198	
3N4m5ioB YellowCard.io	exchange	0.067575	0.322575	
12hoyPobzEmj8rxF8skn5H3ek3Fkj	unnamed s	0.069264	0.079264	
3QLHTaBBkrKrS5Tt85kd2iQUP183	unnamed s	0.003743	0.003743	
197LrsSZCHMQ2wukiuAosEEK48Ll	unnamed service		0.005	
3JQTLLBLX BitQuick.co	exchange	7.072577	19.07258	
bc1qfe8pp DropBit.app	Lightning other		0.01	
121HHsacn Cryptocom.pw	high risk ex	0.005	0.005	
1JGRTEzRxAZht7QZCZdSukBqM5	unnamed s	0.064818	0.069818	
1DRvxdFU5DLQv6MYkzzkB7t4J8L	unnamed s	0.008215	0.008215	
1NE1xVxuzSJASoBRU8CaNgoqqXrl	unnamed service			0.01
13JtX4h7G Exchange.Cryptex.net	high risk exchange		0.005	
1MSTasGFc9XPN36TssLozSwRW1l	unnamed s	0.004296	0.004296	
19iqYbeAT RenProject.io - RenVM	other	12.45032	59.42532	0.08
3ABepmW CopyProTraders.com	scam	0.044105	0.044105	
1Go5qmPz4pzCTEL5H4UH5gkCnD	unnamed service		0.005	
1L7hZ7ncM3onMs6oty5ohbFfPUg	unnamed s	0.006576	0.006576	
3NtJc6yRD1DBfsxrC5VP73Fa5fuNz	unnamed s	0.208615	0.548615	
35q3fryhJpUmoeZaXvQEtd7dHbH	unnamed s	0.016479	0.016479	
1Jqmh33Pf6po1HTM5peEgj6QAx2	unnamed s	0.0097	0.0097	
1CEBcvRrGcCThW7MHbqXRgYoxH	unnamed s	0.007382	0.007382	
17MdDBu93j7bCJKhj9FWrXP5Sw1	unnamed service		0.245	
16SgvDKfVwRitqF2wv4NSAftBgoj1	unnamed s	0.001776	0.001776	
1Je8kGRrvLSYtpw3Zoz1kgMn6J1k	unnamed s	0.000286	0.000286	
36hLx7Hjs BitcoinDepot.com	atm	0.00801	0.41301	0.005
3Db6zph6z2ZFVqvGZKF3vnhXuV2	unnamed s	0.002486	0.002486	

1PdM15nA3qg6RbxoTCVxPT1XQ5 unnamed s	0.11647	0.25147	
3Je2ok8WUpgPPZdbKUoFumsntr unnamed s	0.376403	0.396403	
1DcyocHCP9nMgc145U9BH5fb6 unnamed service		0.16	
1AMjD1Yw CoinPayU.com	scam	0.005	
1N2ormmr Koinim.com	exchange	0.006184	0.016184
17tm9ypqyLPUnk13d7y2ZgP6WEr unnamed s	0.001735	0.001735	
34r3oYgabuykUhcHMRMiVad4G unnamed s	0.055	0.055	
1NiYwTUAi VinDAX.cor VinDAX	exchange	0.006615	0.011615
bc1qwx59ace0vaehtfsnp0ye5zd7y unnamed s	0.002927	0.002927	
13SfTc3XLfRWLnYmYgo29GB2oVb unnamed s	0.00496	0.00496	
191PjzSym Xapo.com	hosted wal	0.00286	0.07286 1.62
36EmADcN BitBuy.ca	exchange	0.06	
bc1qrusa3x3mwujpdqwev4x2vujn unnamed s	5.680528	5.705528	0.855
1B5mJUCwTUgMFZXbnCfaLdvns9 unnamed s	0.001986	0.001986	
1zua5BePTtiaWGvtvvCzUtq3Mmy unnamed s	0.284678	0.284678	
3Berf76Bc TrustDice.win	gambling	0.008136	0.008136
39T11aHoj5iwXWTWJJrQTTEKrrurJ unnamed s	0.001656	0.001656	
1Ki8bhQKWLQAbdtxZJqE2kj6mGX unnamed service		0.01	
31rfNmts4i FMACrypto.com	exchange	0.05	
3PyzSbFj3h Blender.io	mixing	1.08	
16pQuacyc Evonax.com	high risk ex	0.00237	0.00237
1BNoSbJ9Ne2aDKhSwFFP2ENbcg unnamed s	0.00674	0.00674	
3AGtKhGqffg538CMh8qhV6hFJdr1 unnamed service		0.005	
1743dgZzH Cocaine Market	darknet market	0.01	
19qupF6m GOPAX.co.kr	exchange	0.335	0.22
1KeqXqJ95GiDEpmtrKzQF8abmEw unnamed s	0.0938	0.0938	
3QFMCKmyyEJA5y82zRrCpNtEN5 unnamed s	0.004108	0.004108	
3CJYvCG4d5hZu1RC9ycFKYiYwAu unnamed s	0.020408	0.020408	
bc1qp4m3wg6qny88v0teh8p3j7sz unnamed s	0.055201	0.055201	
18ZNfUjeYN5Fh92hNYwjtMzFBK unnamed service		0.005	
12Hebgk7X 24PayBank.net	high risk exchange	0.01	
1ChBJMSW Yalelodge	fraud shop	0.023184	0.063184
1PVz2FTQkjkAexJqqSie3i2X1N1KN unnamed service		0.005	
1F1GTNnrmGLQ3bBxoYijVm4eFA unnamed s	0.041384	0.041384	
3JHJAewVUJhTRYF6HytSs8odsQG9 unnamed service		0.02	0.245
3FZ3DqMNDMTZcgjex7pkP5Adpo unnamed s	0.005857	0.005857	
37ws6CJFbmUqdc5UdjAxevdwad unnamed s	0.081616	0.081616	
17vMaz8pnddW6wUxfy7CVpr8tQ unnamed s	0.038423	0.038423	
3FigERo2iqUdY7c3nY9a6x9YaPSsn unnamed service			0.015
3B6q4bvFQtoR84X1yyxi74aMMsz unnamed s	0.002505	0.002505	
36KDKxo55P3WzfvryQCRA6pRD unnamed service		0.005	
38QH828LzsVMRWHkcP5mf4wuy unnamed s	0.105612	0.150612	
3B25Uifra6BxPN6yj6LYQjNDe2KZr unnamed s	0.015	0.015	
bc1q4azldze0n0htde0jkym8zs7dp unnamed service		0.005	
37CA6TPbicikRGVpBBfBxSxmZH unnamed s	0.011477	0.011477	
3HSZJiZF2 BitcoinSuisse.com	exchange	0.165	
13NECGLY6duFHdoCqbpWRjMgV unnamed service		0.02	

36P5ngZze CoinBurp.com	exchange			0.6
39XRvESytl GreenGoldOrg.com	scam	0.001689	0.001689	
3HqMYtDCGTbgKyaP9DogqpN1Xf	unnamed s	0.001849	0.001849	
1FhnVJi2V1Globe.com	merchant s	0.029823	0.059823	
1P22TqPn2yhV4Tk7K3tTytnQECR	unnamed s	0.000954	0.000954	
1HCNB24vmD5B2RGDuZP9rSTq4	unnamed s	0.002032	0.002032	
bc1q5hkq58anwmw2z3xg33zx4c7v	unnamed s	0.008025	0.018025	
1CoP3Dqm Liquid.com	exchange	0.825054	1.885054	0.19
1GyGRHht BitAccelerate Bot - Tel	scam	0.060063	0.065063	
15XhTzpongsw1kdma9Dt3cwYLAc	unnamed service		0.055	
3Qr7HXHLXmkMDZSgRJ3aEcMu2s	unnamed s	0.011144	0.011144	
17MQEgrJdAMovN3AQHR1Bg32c	unnamed service		0.055	
bc1qazjwl02y365tey9njs9y5jd6j	unnamed s	0.224906	0.254906	1.11
13XetodHE OXcoinTrade.com	scam	0.11903	0.11903	
18oXDgtUC BTCPop.co	other		0.025	
16dg3u7sg AEX.plus	exchange	0.000719	0.000719	0.095
3J7BigJrEyCaVnjvYr1kj7x7sqastDT	unnamed s	0.007999	0.007999	
1KYpxfYhHkRteo6UAhQuZTfiSmV	unnamed s	0.008294	0.008294	
1PfPgv1Ctw9qcDbLqVY4dvEvi7RJE	unnamed service		0.04	
3PPLyoz9RrcQwF9a5z7TMVHBvU	unnamed service			0.01
32H56MzPqwcFxbUhbeZLnw8PFL	unnamed s	0.005656	0.030656	
128cK6pbRvUvcs2rKiN44hpmqhm	unnamed service		0.01	
3FqxMkXrfG5Zvq8AMZFYfTV AeizE	unnamed service			0.01
37gu9tx2R: PayKassa.pro	merchant s	0.410001	1.005001	
bc1qu20xvkafqnp4yquu5ep40te	unnamed service		0.005	
3JUWNcHsC4pMt2gWVojXJZdr4Hj	unnamed s	0.00207	0.00707	
1PzKM3mqSrFs2i3VwrSyJKrhxHVu	unnamed service		0.01	
bc1quctdcx7r2wdc8n2y5fsu7k5qa	unnamed s	0.001595	0.001595	
3LBECoiLA: MEXC.com	exchange	1.90721	2.22721	
bc1qpuijnc Simpledice.com	gambling	0.005368	0.005368	
1DyRGJQZZMr9LxRFXHq5AZ4gopc	unnamed service		0.045	
1L46MWS Coinbase-Invest.com	scam	0.004049	0.004049	
3BmqiQW(ASAP Market (former /darknet ma		0.066238	0.066238	
1FzuVAnLatnLTVWKwST56EH9MU	unnamed service		0.08	
3CagMKWWAL24418SLt2m7R5d2	unnamed s	0.000559	0.000559	
3NX38yr5Z2yK8umhQF1T6EZsx37	unnamed s	0.007532	0.007532	
1E9xCCVtp4YYs1k2TZpfZoHwCj9r	unnamed s	0.008592	0.008592	
13r2KrPt3 BinaryCapitalInvestmer	scam	0.096472	0.096472	
16Mgc5qcmN6cXo2W8DfoGUFuC	unnamed s	0.000828	0.000828	
1LoPpzxyi Latoken.com	exchange		0.01	
bc1qn8sydr2d0fnjus92806z8cgq9	unnamed s	0.0006	0.0006	
32yLGhuPbNLHHeVZxL69gmmK7	unnamed s	0.002588	0.002588	
1Jh2n4mN4GMEZeWymWPktvm7	unnamed s	0.00509	0.00509	
1yDV7xr8J6RmW9fjMPcGDhfZWG	unnamed service		0.565	
34ajCErvsK6h97mFhJsFskvdaRssG	unnamed s	0.004479	0.014479	
12ofW4F4r Foundry USA Pool	mining pool			3.32
14goASnR PrimeDice.com	gambling		0.005	

13k1etwVrkWYN35ueX66ss3ivKZf	unnamed s	0.040148	0.045148	
3P7uhN448wjWU5fZic7AANUhfVy	unnamed service		0.005	
1M1M2HaDBF2PVwMbJukKJfTdfe	unnamed service		0.025	
36o6d2iHEQdJxpzqjGcij2SQJWLKY	unnamed s	2.141481	4.771481	
1JaLcWmap1HnLMTpwWkG1f7Qg	unnamed service		0.005	4.12
1JSJRkGnfR BullionCaste.com	scam	0.318903	0.668903	
3Duw4T3geYq1frTuXbBiEfw1UNN	unnamed s	0.002644	0.002644	
14U8A9yGJDmpByS9kWvk82no4h	unnamed s	0.058952	0.058952	
3Fnc7eTX96qjw4YzLsMJFsU9fxLqk	unnamed service		0.005	
1HP8zxMcHpJra2fb6Ddzkrosg3tcs	unnamed s	0.39492	0.39492	
3GCLKEZrh The Bitcoin Car Donati	other	0.0058	0.0058	
12tFuSuKdk1CR7XkvgyPwAiTd17s	unnamed s	0.109802	0.124802	
1P47mpmKKj67vCpgib7tJivTz9udF	unnamed s	0.005273	0.005273	
1BZ4USfEerEuLHqWVKuwzMorVTz	unnamed s	0.03147	0.03147	
3CKsPQ1Er Godex.io	high risk ex	0.23113	0.23113	
bc1q9enrza20zjqr302df4agevxljqn	unnamed service		0.135	
3FxfEtKfYKgz61QNNx4DMnYEyzj5i	unnamed s	0.013043	0.013043	
1K89utgSq SquareUp.com	exchange	120.7871	154.3921	0.17
341W5WrcDa1M8RLyb7DUwsQn1	unnamed s	0.006144	0.006144	
3K2iuM5PQMgM2ianMLDBZ2oSqi	unnamed s	0.748761	0.778761	
38eCSZwRXeghcaJEY1BhaQEaHmc	unnamed s	0.011354	0.011354	
bc1q8dqdyfud5na8ryty4q628034f	unnamed s	2.850031	2.955031	
1zJRsuq5jXyX5fCbqLC5DjZys9Hj5B	unnamed service		0.385	
bc1qsa6gyj9psa3v707j7tphud3z6f	unnamed s	0.000481	0.000481	
36Z1K39LTaZaC6XHQBhM92Z5pB	unnamed s	0.000362	0.000362	
3Ab4cehZYKhx5r4vbi6v4fWoTvvh'	unnamed service		0.005	
3Misi976Ud8faCrU5SfoMC8Wq84	unnamed s	0.003059	0.003059	
1Czvo2Gkb FreeBitco.in	gambling	1.741254	1.806254	0.005
1LYXP48FWgFvmQqFgpkfCtmdCf	unnamed s	0.047481	0.062481	
bc1qhttdmq9v3d6ywg8nfqkrsan0	unnamed s	0.018729	0.018729	
3HzHfCBRN ChangeInvest.com	exchange		0.07	
3DzNFQR7j Tradefada.com	exchange	0.002629	0.002629	
3PxYm8wPutj7KEubsSebDLAoe4s	unnamed s	0.423321	0.768321	
1NRUeiLZujLqPSMQ1WzgpKCPzgg	unnamed s	0.004829	0.004829	
33D2jUTYToowhwpw2hTre8syTYQs	unnamed service		0.005	0.11
14Hqh9kNI Nobitex.ir	high risk jurisdiction		0.08	
3CnA4MRA1fqdpCgZE1APYtFfvRy	unnamed s	0.000399	0.000399	
375SdyH2umuw8EZHf8ABu1HsFr	unnamed s	0.045703	0.045703	
1Dh2CgsWPhzeXRZMy2sHi5s7qTC	unnamed service		0.025	
1CNC3CmRuGqzE9hgGWT9jCrYkN	unnamed s	0.004752	0.004752	
12FWooxN CoinFalcon.com	exchange	0.013262	0.048262	
39zvdGPD1hCU8UNAQp7nvQAES	unnamed s	0.002945	0.002945	
1JT5jdLVi1 TheRockTrading.com	exchange		0.085	
17Y3DemnjrwbPAX97buo7Rpbtt2	unnamed service		0.005	
3HCK56Quf8CPNTLsW1GVRQAAKj	unnamed s	0.008325	0.008325	
1N8GfnsvPNEyPDNRdQBDWcdipV	unnamed service		1.52	
1BPt1bzaRe3V6XwNv9z8tXXz8Qal	unnamed service		0.045	

1ETc54xRn CoinJar.com	exchange	0.039164	0.234164	0.005
3KGC8KcRt Flugsvamp Market 3.0	darknet market		0.02	
3K2o1qtdHyyD4AaqMG3otAm9Vl	unnamed s	0.004161	0.004161	
1GCWCC5QT75NSMkSfiGFpsJzQw	unnamed s	0.003807	0.003807	
3N7XVInYzKsjhRvMXSVn4fnACKkh	unnamed service		0.015	
1FcWT5Sol CryptoMixer.io	mixing			0.005
129Yjpo2p63JBM1s6us1jAnzWWA	unnamed s	0.008061	0.008061	
19HYmB7upgUaxnapD8DmKx6Wc	unnamed s	0.066793	0.066793	
373RbApztVg9igMmfFNmmBptr	unnamed s	0.052227	0.062227	
17v65tNqx LiteBit.eu	exchange		0.045	
1EsdA8KaFBGqohcCjTcB3M5a9dh	unnamed service		0.12	
bc1qjuti44yrhe6wqfrc52jp7w3sdy	unnamed service			0.01
1GuMujAB AntPool.com	mining pool			2.115
1ArHiMPZl SSNDOB Club	darknet market		0.065	
3MZFP5Hqbij8CR5AKbLmvRuz83C	unnamed s	0.00508	0.01508	
1Ec2JU8ToPxEx1vGoEkR4ejpWgc	unnamed service		0.01	
1126fkM4f Binance.je	exchange		0.065	
1Ejsa8U4jjuNgMS9qb9JAM7qeWE	unnamed s	0.006941	0.006941	
bc1qzqlpxg9due6phjt5upvy9qkp7l	unnamed service		0.005	
1PRg4bUMB3QdARD9N1qfG3iq5X	unnamed s	0.003077	0.003077	
3BqMbaCYarXvhrVi28FBZseY3hBL	unnamed s	0.005139	0.005139	
1P6MeMrJUhcQphbeQT7uTbkbYA	unnamed s	0.000802	0.000802	
13ncBFc7EhyNnT5AYyXouwNzUeC	unnamed service		0.105	
13nCMAHc GSPartners.global	scam	0.79746	0.82746	
31tBiuZ6WcjrdCYg11mcBPMVutV	unnamed service		0.005	
bc1qwwkc4nw63nzeK3wr4x6j99w	unnamed s	0.009416	0.014416	
1JHTsnS7zyMyChDV1XvVoL1HabJf	unnamed s	0.001342	0.001342	
3HAMBUqt Unknown - OTC relate	exchange		0.025	52.19
3MqUnpfPpAmvWZyd3BycWphjyl	unnamed service			0.005
34KQjDo5EoP1SSck8UNbdbqpUH	unnamed s	0.001052	0.001052	
1U7nVxh1wGCTD4xQgJXTny7AEpl	unnamed service		0.16	
1DHTu3YHi8ZphihaYuxWTGt2Wpf	unnamed s	0.002034	0.002034	
3NNGadtjfl BitOasis.net	exchange	0.000169	0.000169	
3K1zFnQjAVdtJyGBjVkiUqThwR71	unnamed s	0.007191	0.007191	
3Dhk8F6KY Bitcoin.DMM.com	exchange		0.005	
122bzJbCvI BitcoinPay.com	merchant s	0.221439	0.346439	
1DXgw2BJxFarAMvbpfoMJKechan	unnamed s	0.005201	0.005201	
1MW6eDvcZFmoD4FM8mBGU3Tf	unnamed service		0.01	
15kM2RpP EXMO.com	exchange		0.035	
3Qjmwe3rE eToro.com	hosted wal	0.635284	0.640284	
1KZsuMNTG6mkAMDUzNaitmim5	unnamed service		0.355	
33pZruiqn795WbpwMmMdpSRLP	unnamed service		0.005	
3GknBr2Y7TKnNkMPHV4eHfDKd6	unnamed service		0.115	
17voRCsbm7vngQJuCeZAY3gfvthl	unnamed service		0.14	
1MRC51rt4r7F1uQ8zXt4sPtkf1NsC	unnamed service		0.01	
3MCiYIEWUmgaWUEZ1sxn7adUC	unnamed service			0.06
16scbXMRBs7MFJt5ZyVxTQNwpp	unnamed service		0.005	

3JVyPcMT7NFZjCRxXZrVSR3sWiw	unnamed s	0.052273	0.092273	
3FoEM5qfwSbRkLcZQ16CshGjtP4	unnamed service		0.005	
35y3qXew	Bilaxy.com exchange	0.818507	0.938507	
3JVKAAbGtFTE9E9eLEpMKQZxmtes	unnamed s	0.01327	0.01327	
3Nh187pggjvx2UBYWzAr3YZvP2y	unnamed service		0.005	
1PmXNZp75eTAerJNJU8DRSwS1p	unnamed service		0.055	
12T1ztSkedFUJXBfwd9cFn6iPrRFb	unnamed s	0.0091	0.0091	
3PdvYtuss1	Yellow Brick Market darknet market		0.02	
1Hu6aPHxAFRwFxmEN19u67vNag	unnamed s	0.019644	0.019644	
12o8XbGRj	LocalCoinSwap.com p2p exchange		0.065	
31kTjIJNqP2c83pKnYRSR6fTGf28C	unnamed s	0.001943	0.001943	
115HncxqknNDanbB2wPsiL7sHGr	unnamed s	58.32932	62.54432	
3A4Ekdg9i	DoveWallet.com hosted wallet		0.03	
1Nf6LTXP85tSsyedQNqFXwyLFA2	unnamed s	0.085103	0.085103	
1CDH228B48m1nW4BtWiu22XSYt	unnamed s	0.00561	0.00561	
359oy2A8zU8xAGJgDMYuK7itKPN	unnamed service			0.025
18dT2ZHRk64dBQK82VezgHc2bS	unnamed service		0.325	
3MLDYQzH5DuM3X8ps6PHag6ww	unnamed service			0.085
3PjbniKMSAjb8Ef4HoomfMJKMC	unnamed s	0.000706	0.000706	
15ctsuNS18SJXWLYaGVvaAnQ1cj7	unnamed service		0.015	
bc1qgl8ad002vlcajqu63me5kp6sv	unnamed service		0.045	
17SheUYn	Paxos.com exchange		0.215	0.065
3JFhfdb9yym9LhR2ecVCSP5qDsxn	unnamed service			0.035
19ednbi65	MyMTIClub.com scam	4.41563	4.59563	
33UAekxLe3rptNXEWGPlj4m2Em	unnamed service		0.125	
17Erz7qymV6Ncimk1GFiZeutNrhb	unnamed s	0.004506	0.004506	
139Bger9oSf6be2H7KwR1BdzqCA	unnamed s	0.002798	0.012798	
3JXs1hsYZigDQvkbxnaQ5SHX8LLg	unnamed s	1.197583	1.512583	0.005
144dqPY5	Fairlay.com gambling	0.112366	0.247366	
3AE61dbffihyzLYRHRaAidA9xG6T5	unnamed s	0.000529	0.000529	
3F6RL5X4iq8fhkc3WzPSKXQBD4q	unnamed s	0.008933	0.008933	
17at4JpQEvJNNvADu27cvPbJ2ZTa	unnamed service		0.025	
14t3HcTv5WS7zvjiOVecswnhpegJa	unnamed s	0.045223	0.065223	
3M991pHr7kgY7t9xiApBFE177pw	unnamed s	0.002312	0.002312	
1HDUJnK9I	DuckDice.io gambling	0.04378	0.04378	
16FGRrU1a1TFuHsGt72CLNcjKJ5H	unnamed service		0.12	0.055
3Cq4n7uywRe5rWXCZ88CAttfpBr	unnamed s	0.003702	0.003702	
387yftfhBn	Celsius.network other	1299.666	1438.516	38.375
1HneGmpAg38UpkoSnfboZjzER7n	unnamed service		0.43	
1vQ439Zib6fsXCrPFzX21w7ZEUXFl	unnamed s	0.001954	0.001954	
(coinbase)	Coin Generation mining			0.18
1PchPNfgo	SendWyre.com exchange	1.997184	4.157184	0.035
3D3MYt9a	AscendEX.com exchange	4.50689	5.34189	0.01
33QX2r96frhrmFBpNSD4gaGpUyc	unnamed s	0.352889	0.552889	
3GgSvD1m	MorphToken.com high risk ex	0.0275	1.0075	
bc1qtx8lew	EggChange.net high risk exchange		0.075	
3DkuqZpGeDHCmrL29qhRcneXJ4r	unnamed service		0.005	

1BUVqay2) NiceHash.com	mining poc	0.108541	0.223541	0.12
13FCHtNzww38gCNgFvNnhsHwy8L	unnamed s	0.027852	0.032852	
3DbFJdykqq9XhCHWNuiJmivXcSw	unnamed s	0.001901	0.001901	
3F2NBWMM8iqX41VSYnjb9CDT9f	unnamed s	0.019379	0.064379	
1BibMv4h3 TexcoinFX.com	scam		0.13	
1KwmCS1J2b6dCTq8aikZFK4jQDpj	unnamed s	0.0087	0.0087	
1M9zLVE7v8zZo74bkknLJhxWEzbi	unnamed s	0.006551	0.006551	
3Bq4eVMrRA8vra26HLTfA7mw2E	unnamed service		0.005	
bc1qq4n8ku658q8n5vu4guw2lxxv	unnamed s	0.005876	0.005876	
15UjvFAkxI CoinGaming.io	gambling	0.119871	0.459871	0.01
3HS7mCzMcfmPopRjgZHB4F8x81r	unnamed s	0.001836	0.001836	
16kRU4rhSNyUqT8gqPGJpxPJWYr	unnamed service		0.055	
1GWnCP7rGkYeKiwqaaPNc7No2tl	unnamed service		0.015	
3DnaXr32VQP3h8bnSH3RRRxE1U	unnamed service		0.59	
37Rv9LMcaSPCh6LqVpnkfoFKXmy	unnamed service		0.015	
3Hib5Bicjpp2HbyjHVePsSoXE82NF	unnamed service		0.005	
3QCRtaRDpHvV619QwyqF2w8bf1	unnamed s	0.002024	0.002024	
1HoCaMJX Elon-Musk.life	scam	0.030351	0.030351	
12rCywPD4RPW3P83hegc6LBGC9	unnamed s	0.00025	0.00025	
3D66pHnmETQKTQ7uKVzbBBCCm	unnamed s	0.0004	0.0004	
12zr7gegAema5BeApdPCiDsFsZek	unnamed s	0.00725	0.00725	
12yY6PmG1E3wp6P5hrQmAPnH1	unnamed s	0.006388	0.006388	
15NLJvbaVv3zDhRd68CpbqMeJbT	unnamed service		0.005	
1DGYXxifqk7YGEmsibVrDpcwai6h	unnamed service		0.075	
3K2FXu11C4MWSq5E7PxhnEELqn	unnamed s	2.588007	2.808007	
1AKaRxCsLdVcbtiSztXYXLLKYyNVL	unnamed s	0.0055	0.0055	
1B2fB1MtLryhyEg67VUCGikCsJqj	unnamed s	0.003707	0.003707	
1Kh2za1VeF4ZkWUdAJnbjMKGurE	unnamed s	0.008455	0.008455	
132gfLpZf BlockTrades.us	exchange	0.005786	0.005786	
1GzwigadvXc1cuV7rXpQM7axHu	unnamed s	0.004059	0.004059	
1FPQi7Sw UAS-Shop.ru	fraud shop	0.003745	0.003745	
3JMx21TsHeZtfKbxuxEGd3HvYUi	unnamed service		0.005	
3GQ4nrGzrxMpFx4zTGxpAeMAZa	unnamed s	0.003928	1.828928	
1KHVJTbfcz6U8bc4chSsZJhYk7xXG	unnamed service		0.01	
32ZLK9ijk6 SouAlter.com.br	exchange		0.005	
3HMdy1PeAEvo8TduEjdN6U4YXm	unnamed s	0.00528	0.00528	
1birsVpaBbTWN9kbDLtQ7v4xZkQj	unnamed s	0.055201	0.440201	
1CCKVZHCvayvLMHHbnKgnVsKnQ	unnamed s	0.002414	0.002414	
32oAtiAtPw4cRyB5p7x1U4bnmRN	unnamed service		0.005	
37y8213N81WusoHjSN5nFVWmd	unnamed service		0.015	
14iKknFxa SafeDice.com	gambling			0.005
3QHMGf2LDCKPj8y72tW4MBVuZs	unnamed service		0.025	
1Geminir1I GeminiBTC.net	scam	0.402948	0.402948	
3BpFcyFimZC4GPWvwGQznhPhFr	unnamed s	0.009869	0.009869	
33XH231VdnVuHP8ZGiRznMGzcal	unnamed service		0.005	
3DoMvFABow7oJ273Kr7bQNNvq7	unnamed service		0.01	
382HXfJsxpN9vYrkfUo9jFCDxJir	unnamed service		0.01	

1NEy1n8Je Bittrue.com Bittrue.com exchange	41.16319	42.91819	
1Lx99bYhr1qHEEgjjwZy3ec4kD5ul unnamed s	0.031571	0.031571	
1F9htujdqhrFQ3ZEmzndHt24CN4z unnamed s	0.025174	0.025174	
3EtY7rGMi55LPkrMd8hLC2UXh42' unnamed s	0.001613	0.001613	
32j7FesbH Abcc.com exchange	0.004858	0.014858	
3HWEyTjfr7t7iAS7BpNekzddqWrZ unnamed service		0.05	
3AMejYJ7uoh2BgkveqEN7kzXSbkc unnamed s	0.00063	0.00063	
3QvbH4BnkPXoZRTXxaedSA7u4D6 unnamed service		0.055	
3NBwo2JEfFcUYCfzXUoYvcZ1wf5Y unnamed s	15.18653	15.45653	
19bddsEiBnyXhzj4wVDE764maFN unnamed s	0.001835	0.001835	
1E1mRpC8WiRuwwkjZCj9G7GrhDe unnamed service		0.1	
18zKea2Tuiiw4uND47MjGYwvrCB unnamed s	0.003089	0.003089	
1MLgaxVM Bitpanda.com exchange	0.672349	1.432349	0.015
1B7Q7rm3JWf5cs4srrpLfyrCfHsTQ unnamed s	0.002636	0.002636	
3LK9um6pD9Nd5YjwQiwfQhFPRh unnamed service		0.74	
33HmcsseA3kMHoBxG7eAoZFSx9 unnamed s	0.002981	0.002981	
3Nb6bjjoLv4GvF3TzCJZ9zEDVf7D unnamed service		0.005	
12zvEDMqJr6iYgLCFPKGdyZMzVrz unnamed service		0.005	
3HJ6Fwjyyl BullBitcoin.com exchange		0.065	0.01
13Vp8xBW Freewallet.org hosted wal	0.839738	1.574738	0.06
1JdJ4vcNrb3y6uVRPxpjPRprP2FP9a unnamed s	0.010439	0.010439	
1D7ns7Q3l HBTC.com exchange	3.969631	4.934631	
1NuW3TAJ smtp illicit actor-org		0.01	
1GTu7LWU ProBit.com exchange	7.290407	7.555407	
1Juirjo1K59TpxvZYnd43yrxfqT21C unnamed s	0.023971	0.023971	
1DKC5Ynm OnlineFXPro.com scam		0.005	
3ASwHRkqYX4VZmrvo1Qf1HfcKC unnamed service		0.005	
3LzUEghjDzmHk2bV4etmJXyeyRS unnamed s	0.023363	0.108363	
3PhYpUSb1qUZuNF5muoGM4KJ6l unnamed s	0.0216	0.0216	
1HQbBBihareH8SKyirkbQ68N3eJK unnamed s	0.020364	0.020364	
1MFbhKJAzb7jhWQb8tcAAhonDY unnamed s	0.08547	0.08547	
12am2Sk12Y9kMWbzCZwixgpLmF unnamed service		0.005	
3Gzedv8nGXVcUzk3aZjMY84C4yD unnamed service		0.1	
3Nr6E66UVAHBuJBYMX9PX5VJh unnamed service		0.01	
3M4LBN5K CoinToCard.org high risk exchange		0.01	0.01
1AoEQ9kLjFqNnt15nwdFXLoW3oC unnamed s	0.018388	0.018388	
1L4Y5W4ivV6TN65FdGjY79tPWcn unnamed s	0.00347	0.00347	
17JkTqjozhjGcYGkK6gioyv7DU2sw unnamed s	0.00118	0.00118	
189jxoxMS CryptoCoin-World.com scam		0.01	
13CWDDMKDrShRPXeVx8x5isS4C unnamed service		0.01	
bc1qgywgr SNLElon.com scam	0.001627	0.001627	
1GUZH5A1DLgbAG6anQB7vA6mj unnamed s	0.000869	0.000869	
bc1qx4mffl3gl4vsvtyzztkn06vhphz unnamed service		0.005	
1913owvL Stacks.co - Miners other		0.015	
13NKhvvYa7iaKLcdCKaHUqz3wwp unnamed service		0.03	0.01
3CB1mHN4enkM2fd2wbcuSRZJcU unnamed service			0.005
bc1qdhnft5lk76ll5uxqjcqsvg6w5 unnamed s	0.023625	0.023625	

15mxWLTC Triple-A.io	merchant s	0.005345	0.015345	
35GKWXRzWnQEr91WRm47KHF9	unnamed service			0.01
32nZ7sAfVJW7rM3zUq1GSwBtrFT	unnamed service			0.01
193QoMo9aiYaFuAjmsHFQpH1VT.	unnamed s	0.009705	0.009705	
14cWq5RwpyxCkofREhF5bXoyVfG	unnamed service		0.095	
1AKgYVZbcHBp7ozpg2dPyqstggQc	unnamed service		0.025	
3PUwkhTB. AdvCash.com	exchange		0.605	
14B5vTz4bvStXiFnZUYp6DTazvkjW	unnamed s	0.002219	0.002219	
1NheV8eQfHuVHLd25ggoMy5dbL	unnamed service		0.06	
1CtxqMekGmrNgJ2ZYwxj1kC7Kn2	unnamed s	0.000357	0.000357	
3CfPvSy7MebAw8LniJbAmG2sFD6	unnamed s	0.000833	0.000833	
1DKT5qg8yuDSdrRU8CGio1FMWt'	unnamed s	0.029455	0.029455	
1iqpWQf8DTm3mKYjKZ4jf1N1bsn	unnamed s	0.002449	0.002449	
17PbpKDSOecu1CCsKxtrzdVARRF	unnamed service		0.55	
3EuB4VMPTWL12hNnV3wMs8BFJ	unnamed service		0.005	
1EQtXWNnCbuc6BCvmcRQXYZu\	unnamed service		0.02	
bc1q48ez32meggwdy64c739dxe8	unnamed s	0.016681	0.016681	
3NFB72usnVZYfyNTGemgSXDDaw	unnamed s	0.002681	0.042681	
33WF5LPQ9Rs8f8eTAxUpcmWp9f	unnamed s	0.039515	0.039515	
16Vetk8NYCtwLCM7ugcd7dbtzM2	unnamed s	0.00761	0.00761	
346rYqUkpjBB1DcX1iTqds5zUQoC	unnamed s	0.000176	0.000176	
1HyY4X4hDirYufEU62eKxsKhoj8y1	unnamed s	0.002599	0.002599	
38ZuWkTPWF7ncTQy63p8aNVBKz	unnamed s	0.122702	0.122702	
1Dmykqzttg6wmLnM8TAJDxST68f	unnamed s	0.108741	0.198741	
1MCWgUoUmhegA1g5hAFA9K9ul	unnamed s	0.030721	0.040721	
18utbB4NKpoEC2vZND53vXtPP1t'	unnamed s	0.002078	0.002078	
3NCXopYdGv6uQ3KKNrtyMcEMR'	unnamed s	0.005613	0.005613	
bc1q77m0qqgxffh6dthjfv06nwwc	unnamed service		0.045	
18LCuKuFC BitBay.net	exchange	0.261014	0.496014	0.01
1KbVTKajrcP1RaWwfqB4kkuNN4K	unnamed s	0.001159	0.001159	
346N6RKAi BitBits.org	high risk exchange		0.01	
1MSdLZnkMBW83FLcqi18tDvmvu	unnamed s	0.00335	0.00335	
3BCrc9Snpvy62VwjUjhK3efoZwT7	unnamed service		0.005	
bc1qles82dxrlvrhrw9u6znnx2qrwy	unnamed service		0.005	
3P8LUNMs5we5SCcL5TxiYGW3Vd	unnamed s	0.66968	0.68968	
14NSLcvM: Waves.exchange	exchange	1.763108	1.983108	
1M2ygw9utZ69BTDM8XR3aLbqi2l	unnamed s	0.008899	0.028899	
322QudMe1w29qiXoU2Wu6XE56	unnamed s	0.001893	0.001893	
1BdzCCsAF9zM3BnsDLwm2L7EMl	unnamed service			0.18
1NrJ7NzDFPmmEvk2ZbXxpUTMck	unnamed s	0.00775	0.00775	
1F1XS2Rw! Coinsource.net	atm			0.005
1AwHFAM95ZE1JU1YS5kTh9Pu7b	unnamed s	0.02455	0.02455	
19m2oUqXQjNBypSxn5Rg41kb1pf	unnamed service		0.015	
3QiqwzxFbfHw9DJ4Vkk9u2LK4tNv	unnamed service		0.005	
1Ab2vJFiQmHU5yYSvwBTKvQKWj	unnamed s	0.000711	0.000711	
34PaMUYZFSxc3XPmz8UUYScBJV	unnamed s	0.003019	0.003019	
33UWzKr19sCzHZnMbgSWmf8YCl	unnamed service		0.005	

1BdKSMTb World Market	darknet ma	0.395756	0.575756	
38K9S5Yn5QohCX5jCasbZPAvciWf	unnamed s	0.026139	0.041139	
38V9vCschie3EixYaFaoXN7S35C3E	unnamed service		0.005	
18H43RTXDx5BQLLNqc3VrV4T15C	unnamed service		0.015	
13UfRUkms6n39dnM6DDmXwPbf	unnamed service		0.025	
397fJJqW3 WalletofSatoshi.com	hosted wal	0.184975	0.204975	
3EUR96rVF SIGEN.pro	high risk ex	0.015042	0.020042	
3Ek3MprgE Crypto-Mining.biz	scam		0.005	
1LrgAHUysnUandv3hAeqAgx76JHk	unnamed service		0.555	
32TLB8frjN2Unez4RUZuNVDLz1G	unnamed s	0.019809	0.024809	
3FVfDfH18w6gZ2F45nF6SvNRFurz	unnamed s	1.934783	2.059783	
15K36ZfiPWY3ycFD3KXKEWBR6uc	unnamed s	0.683678	0.728678	
19tEci2HK4fe72v5s8dQ1Dq3LuZs\	unnamed service		0.19	
342Cc14eF FalconX.io	exchange		0.04	0.255
3N3YMjDUDW72Cq1rjq1m4Eph3s	unnamed s	0.00128	0.00628	
31mRcuDTNXwdfjeyECvkQbYbQxc	unnamed s	0.001281	0.081281	
3K9kMMBXnDyotz1QkgBJDbguC1	unnamed s	0.001573	0.001573	
3Pn7piZMonWJmr7k19cW8ysZU1	unnamed s	0.007345	0.007345	
3JEfkrccTffl NovaBTM.com	atm	0.026688	0.041688	
19XhybFeqQXcFkc6DZpR5zoXpwz	unnamed service		0.005	
bc1q2jp7yg5eInx6x943pwsftxhm0	unnamed service		0.02	
17xBsjELkVKBCvuSKJvYSDNwEHvo	unnamed s	0.010738	0.010738	
3Mnm1Qgi Reported as Mespinoz	ransomware		0.005	
34geKw5J3J2VwdpRmWqMFnmk\	unnamed service		0.06	
1L51UvTCpGiJ168ztQ18JqVH7V3Z	unnamed service		0.05	
1LWh2ZR4 Bittylicious.com	exchange			0.005
3BuVq8mzsSTJTUPYKrarKj2T1yKcn	unnamed s	0.0075	0.0075	
3KwKhHR3zxor7PSfiv6WvDawyKj7	unnamed s	0.00087	0.00087	
3QXTmXFic Icarus Market	darknet ma	0.078418	0.113418	
3PzH6r5kf\ BITMAX.me	exchange		0.02	
35mUX58xNWDNTnjGxCkUq7iGrL	unnamed service		0.11	
13KACerBFxmS6xZCkqgkM5vifWp	unnamed service		0.02	
3GFrQUh89srVqJzp1fVaLgE13QXh	unnamed s	0.014504	0.014504	
36UDq4TYLz82LYazpn6aoJ1Ygv32	unnamed service		0.005	
1AJg49P8Z AKRossilInvestmentsPt	scam	1.806059	1.806059	
1AyBwf11R8cvEyy1Sds7Yqdr1639	unnamed s	0.013	0.013	
1FtFM85A23xKtDngv8WpqG5i8KF	unnamed service		0.035	
1Pb8bV5vF Coinify.com	merchant s	0.002491	0.027491	
3Eo4JkhkBAV4RFaCe2TSskkUh9dC	unnamed s	0.021343	0.036343	
36fkECbKnWCsxDuPfz5t52NxxQ6c	unnamed s	0.00072	0.00072	
14UraxzVWnZ22ZTQofcqYxcFnzp8	unnamed service		0.23	
1HKen77oSutvdo67JShtPGfpR1Mf	unnamed s	0.0057	0.0057	
1G5ASwHtW6RAbksMVm2nVBgKf	unnamed s	0.086857	0.086857	
33ydwQB8i5Z3fbBAzSAKZw3fZLvE	unnamed service			0.005
1ENngQ41 Bitcoin.de	exchange		0.025	0.005
3EhaXxqCGBikBBxJN3c54xZuJfRtc	unnamed s	0.019687	0.019687	
39LVmyt1T3UH4M76zsTkHMHZ5E	unnamed service		0.05	

1LKDX6siuI Cointree.com	exchange			0.005
3KSB5dENc Birake.com	exchange	0.034905	0.034905	
1BrC4UoG/ Xcoins.io	exchange	0.005	0.01	
39ZaWyG9gvtdGMDUgaAKSEoMC	unnamed s	0.003657	0.003657	
1GnQguKA ChipMixer.com	mixing		7.595	0.12
1Q4WgnM Investrix.io	scam	0.0173	0.0523	
3LV4Ae8sW5xFRpd3TgdDq5aUeN	unnamed service			0.005
3DVGGfKGURkBTzEm2BgwLgWp2f	unnamed s	0.194188	0.194188	
18zAZmF1sb8Ro7K8shin17RUnZn	unnamed s	0.05489	0.05489	
3CM9pUhvFXG7KRjcCuXUcJbFqcN	unnamed service		0.005	
38tiZqQv1V8RoMEdE8umiCJ7yEul	unnamed service		0.005	
38ENmTr2/ CoinCloud/ CoinCloud/ atm			1.15	
3PyK7Haz1Q7ec4uW7LWnLrcVro	unnamed service		0.005	0.14
1AYCfA4Sy TorqueBot.net Cold Str	scam	0.355706	0.360706	
1AFNStV4R Tidex.com	exchange		0.04	
3H3Qmkwl CoinDeal.com	exchange	1.682187	1.682187	
1L8qDTuVkpHgNg4yfFpqrnFqYKzJ	unnamed s	0.000405	0.000405	
33MJK7MHRVz7A5VqZRj2t87DBDf	unnamed s	0.005852	0.005852	
13zsn5AVYQTBQYKAFbfcV5cao1d	unnamed service		0.01	
3LB3b9aAbDyL4zkigEVvbu8AVJm	unnamed service		0.01	
1GiABtEAjZsH7E1BjhjaWqUvTC81	unnamed s	0.025492	0.025492	
1CZJQN2ajCu9FJY8RdTTnoKrkgqZ	unnamed s	0.011292	0.011292	
1C1sKb6bugGBXq9o4urCAnsAKg8	unnamed service		0.045	
1HTNnLYvxdRxSC32W6z634umRc	unnamed s	0.008092	0.008092	
3CkK4tKfB61h59TcXCW1ryebJ6Ux	unnamed s	0.005004	0.005004	
36Ca1C1FRCKArs9HJbxbN7eKW28	unnamed s	0.122716	0.192716	
334tNWFR Rain.bh	exchange		0.01	
1cY5jP5dq Vendetta.cc	fraud shop	0.00222	0.00222	
3MuJW6GNmfnDmJXq5R5mXRrp	unnamed s	0.001942	0.001942	
16Xuvss4tw716VuBxhSYUoHfQz	unnamed s	0.033505	0.093505	
3M5TQFV1XQ71TY1vbxoH1gKx7T	unnamed s	0.009458	0.009458	
3DguCsDwJWwYmJwwjoLdyr3hc5	unnamed s	0.0004	0.0004	
1Gk8S3Gs CoinSpot.com.au	exchange	0.018005	0.318005	0.015
1LnMMkHZLbL7pBckmBjBDMdAS	unnamed service		0.53	
39d9s51RTN6Bxt4okfaRKpgDEzrV	unnamed service			0.01
3F1hWdd5nu3aakFY1Gaci5neBUB	unnamed s	0.00211	0.00211	
3ATYdbHtuEvazUpKU7bj5d9pA9y	unnamed s	0.002255	0.002255	
1Niwg196g1bMKuAtvTTX8EmmSu	unnamed s	0.003418	0.003418	
18mW6Yft8E5kXAQCCFc6EcM63S	unnamed s	0.038239	0.038239	
17jjkkwuqRttq7g57HcfaDcmXMf	unnamed s	0.080726	0.080726	
1KgrTYEwC SealsWithClubs.eu	gambling	0.011709	0.011709	
1MfFkLn1xepdcmN6k8rmkjM4nrk	unnamed s	0.017273	0.042273	
33Pze5yeqb588dSkSRGV64qiVtDB	unnamed service			0.005
bc1qxy2kgi Twitter Scam Hack: Ac	scam	0.001498	0.001498	
3DNpJeDk6ZKxKQFC58QwiDYqeJo	unnamed s	1.286432	1.286432	
3BwwUiGHNZFwrCg8mg73wxAdY	unnamed s	0.001528	0.001528	
3PkzyZfzc4 NDAX.io NDAX	exchange		0.055	

16ATn9DDI HTC Trading	exchange	7540.329	179.655	7551.189
bc1q93zmp4tzt8qf2rgufzpnrl0lhfuunnamed s	0.000617	0.010617		
36cFrFfQwikQVF9GZodxkzf1B62dunnamed service				0.01
14PJWCByl LocalBitcoins.com	p2p exchar	4.628155	21.51816	0.115
1EPjDNTelF5c767KKQzzNHexJsGMunnamed service			0.1	
3QumxEWsxYEmh3e7t4AzKTdVlxunnamed s	0.006	0.006		
1MQ1XhWmimrRNHhanLLtzCJSCPunnamed service			0.25	
191uexYDAuLgpRrdvvgzqN9AzkWunnamed s	0.005897	0.005897		
1Bgxbwarrh2YBgsqmwkfKui3fhhbPunnamed service			0.035	
12jFPtsynhfz6aydHPy1ZXo1cRDJDunnamed s	0.003782	0.003782		
3AP6HRDw CanadianBitcoins.com	atm		0.005	
16eNCyhDs4VsNwqvndWYR59gWunnamed s	0.000967	0.000967		
1HG1w84w EXXA.net	scam		0.01	
1PUTaa4ARLZwSkDcND4XNzC41yunnamed service			0.005	
34v4LN4c2 DHF.tk	scam	1.577946	1.757946	
14VwRHoXhgYaZgHCJ1s5L6GtHNunnamed s	0.006899	0.016899		
1KeTW57W59ZtoMzoQRpt3H6eRunnamed s	0.001839	0.001839		
bc1q0nlqj9qmeclf9dm5kqj8j2g6plunnamed s	0.018207	0.018207		
1Woodmx Ark-BTC.net	scam	0.450103	0.450103	
3FaBSDmCNPGBmBthdCgVLFqi4uunnamed s	0.074476	0.074476		
16V5Jy5AAmrHc3Ci35jPx8EdJE4eunnamed service			0.03	
3KfTuRH9bD2VR7qvdKPB4mgvYxunnamed s	0.002	0.002		
3MJQwKFe Tradeogre.com	high risk ex	13.60329	16.72329	0.015
1AbjmH7hHyZRyUmbhDAZFGxNKunnamed service			0.07	
3Adgpxypc1D4HAZkWRFLFKLxhUcunnamed service			0.1	
16uhiDxSQaYW1SczAuoATzPY87FIunnamed s	0.038446	0.038446		
1FRR1kQQrqMAaXwttKG1cUKF9eunnamed service			0.02	
36LYUo3Vl OSL.com	exchange		0.34	48.41
1Ly3RRZnvUELAfuomcRr7n7Rz3rrunnamed service			0.06	
19cpTqckxFZ4ARKuzrmXd4LQR7jkunnamed service			0.1	
3AtzBeoAr MiningCity.com	scam	0.00075	0.00075	
38ukfvZKpvmvjhMCi36j363Mh8ddunnamed s	0.216689	0.216689		
1EgQ1z9YWCwok2fErMJCdAkE5tunnamed service			0.03	
1F6zSKDcFZssSouBVScKrZizSP8fCyunnamed service			21.925	
1ETwFgCtd6cJTS176b8E37j1F3bzunnamed service			0.065	
34zFM26jKkFKVYrQrYD5fWe6PN9unnamed service				0.01
3EgvyQgo6 GiftOff.com	other	0.621885	0.871885	
19n1Kba8HEpGs4henUxVZutFg1Funnamed s	0.00152	0.00152		
1GQBjhcxVwhgkPXZ8H5TuCmrQ1unnamed s	0.045563	0.045563		
1EN7Mg1ffiEavmby3qRjqxEtpoSzunnamed s	0.001557	0.001557		
13B1Mxt6HwUtoqndBHeCFqpnNLunnamed service			0.14	
1Ey2E9swJ Vaultoro.com	exchange	0.003008	0.123008	
15p4iUfhnszLNAbx4Hnayz5zZQZunnamed service			0.125	
1Jtighdvk9np5B8nGD4WTB3LYFcunnamed s	0.00213	0.00213		
3Mqc5fSbhCWkZNE3oJTUNFg53unnamed s	0.011163	0.046163		
1Lbd88UP7 Mega-Trader.net	scam	0.134457	0.134457	
1xvmeFyvZQmJ4XNPHEt8jqvSFbbunnamed s	0.015	0.025		

3NJ5CrpizK Bitero.io	scam		0.005	
1KU2AsJftomeprywtXq31kBSVzoP	unnamed service		0.03	
1D2PJJeNEzbsAufmWoKgWKmngJ	unnamed s	0.00811	0.00811	
1GaQw4NtVYda1z1Q5VQZgHsissz	unnamed service		0.005	
19W2SrV76HT1BeSSXd7gr7AQGe	unnamed s	0.16669	0.17169	
3PZZ4vMCI Delta.Exchange	exchange	0.421078	0.431078	
1BwysMVmbstiJ1cDWX2Yn5WnT	unnamed service		0.025	
1G9KGxW9p3BbmSchywTuqtrMfc	unnamed s	0.019753	0.019753	
1waRgbl12 Trade401.com	scam		0.005	
3G3kTLj7S/ Bitlo.com	exchange	0.00126	0.00626	
1HGRHz3qLKyXk4NAkXheNqGoUi	unnamed s	0.028937	0.028937	
3Gjox4LdBI Net-cents.com	merchant services		0.055	1.215
384uXhkZl Fokawa.com	p2p exchange		0.005	
15ehV9b6Ji5yJfgNc1GJvJ6e28DFG	unnamed s	0.001317	0.001317	
1Cb9FYtfcX8StxgVXUSDbwvQKJf	unnamed s	0.008519	0.008519	
1A1nBCs5pdYZf7GqhWLaGajDHda	unnamed s	0.004633	0.004633	
15QaPLWBcLys12cTgQw7JbngaUz	unnamed service		0.12	
1JmZa9rtKJVhBV1Dwzm7gXmjJBV	unnamed s	0.004671	0.004671	
1PTvK3ukP FinancePrime.com	scam		0.025	
13mpQcVR Unknown - Ransomwa	high risk exchange		0.01	
18BZT2jGx' WasabiWallet.io	mixing	6.553861	17.74886	0.155
1NyxB1pkrPC44Mt8oGB6AHq6y	unnamed service		0.035	
33Eh4Z8m' Infinity	darknet ma	0.045018	0.080018	
1N6FsSMS93zYjpNTzGi1eGUtbl3e	unnamed service		0.05	
1B8LJbt4QTub1v1jng9iQE1U3Dha	unnamed s	0.002476	0.002476	
1A7tWftaG Coinberry.com	exchange		0.075	
388nbTUK7vdVF7v9VVuGYjH1GGf	unnamed s	0.043261	0.043261	
1M54qp2LBjaTaCSYxVBzooRtTo9	unnamed service		0.005	
175bZvRhAwTbcnC4fUqd7pubUyrl	unnamed service		0.005	
33DA29zrVVPsSipLB8RF8Hn92X6m	unnamed s	0.0027	0.0027	
3GBdoySe1 PowerCash21.com	merchant s	0.0061	0.0061	
bc1qt6erd50dnj5ghlrh42drqvn8ku	unnamed s	0.04516	0.07516	
1BxTutunPb5HLpvAyE4ctgYurDnV	unnamed s	0.008263	0.808263	
17zcuMbob7Zyu4tP3k1C5UJaM2i	unnamed s	0.002417	0.002417	
1D5fH4binnsPCPPKNkbcGWLm6F	unnamed s	0.002598	0.002598	
1AnD77GWKNg4EZLWnjNVVpm21	unnamed s	0.035786	0.035786	
1GvxzYdJCzG6Kru4NryRW5VUXS5	unnamed service		0.01	
39NPNwNe9ZimUWtzVp2skJp9Xe	unnamed s	0.183471	0.183471	
19xfiH6v9e Bitfinex.com	exchange	2.487108	5.132108	57.745
1H3DgHAsFwMTiJiMn1DzqLNslp	unnamed service		0.055	
32CST4Hzc lbandirect.com	exchange		0.04	
1ANCfmoKtHUZs1GwPaDCPAgUtb	unnamed s	0.038025	0.038025	
3CRZtw8oL4mL5kFRYfwwwQSZ5U1	unnamed service			0.045
1Fz2zdmRTrYdoNf76DLkyQ1cv2dk	unnamed s	0.00736	0.00736	
33rXht7zQDQzaYzLi9ZqEFUhfGU2	unnamed service			0.04
3B4ZCzf98ypar7PWa9v8fDqwt3py	unnamed s	0.012895	0.012895	
35E8YJnDV WirexApp.com	exchange	0.001264	1.106264	0.015

33Wxsiv6bTDWcsNi3yB4uHjrTpNt unnamed s	0.044834	0.049834	
19uiKbp9C: APEXMarkets.io exchange	0.014072	0.199072	
1LjaoNDiahGfrZxpYuQRgb2TV4JaA unnamed service		0.075	
3DG3XeDJFgEZxyven5KdgNAPPno unnamed service			0.08
1GqpTqFx Uphold.com exchange	36.08507	42.61507	0.03
1Bxtr7HN6UhQnQxnU3mQzQag9l unnamed s	0.001863	0.001863	
bc1qp0empjcy4pyn30q9lc2ur5edt unnamed s	0.00055	0.00055	
3CUjUN3hNNfLizQT7C9djlLLFNgQ unnamed s	0.003758	0.003758	
37DarKzWo8TL5UE7UMcoUvgBZ7 unnamed service			0.01
1CjReh8yfT EagleFX.com exchange	0.003153	0.008153	
bc1qyxr8y8 SamouraiWallet.com - mixing		0.685	
3HznzQ72bWfTiWg37GrwxazoHiZ unnamed s	0.003047	0.008047	
1Ln64ycK5FV6Ph4yrMyBdutr8NP/ unnamed service		0.13	
3PbaA54H72UYhsHEneyn1jLgazPi: unnamed s	0.043046	0.043046	
1CXcLMebDsQbZsaN5LSMrZ4TMx unnamed s	0.08785	0.08785	
39p4JKUmDw7pF2gK8Hnt4kg1P2: unnamed s	0.005153	0.005153	
34M15vAbMyCyRF2MuCVKqAZqV unnamed s	0.000199	0.000199	
16mUG9jMrwMyfSHct14FCEd25V unnamed s	0.006259	0.006259	
1kP7gx4Vm5DJCPz4rkJ2Vir4DSTD: unnamed s	0.010997	0.010997	
1F4VG2yikqFpVjPQTMaSEzwTqZp: unnamed s	0.004801	0.004801	
1AceRE3azZDyJT3zKX69daeL3ruS8 unnamed service		0.005	
3EMqZexsFdbQKsGykrMp668xsryl unnamed s	0.148822	0.148822	
bc1q8whqmjlkkfcd7gwuwvcjpfmsl unnamed service		0.01	
3Lpmc84P\ FoxInvestmentTrade.o scam	0.813753	4.993753	
134Xgqda8VLbxDboZtbNYFQFe87: unnamed s	0.001224	0.001224	
1NHpy7ueCg3yqFtRav61gqrPldNF unnamed s	0.016342	0.016342	
3FVtf5a4q5 Atomars.com exchange	0.278629	0.278629	
34PBVod3tS5JLcMhWNGwS7jzpe> unnamed s	0.06679	0.06679	
1392s3a2jaNXRWBCFoWgtUZJEHE unnamed s	0.002175	0.002175	
36qqeFpm: CoinDCX.com exchange	0.478833	2.498833	
12GqPPchBNuvMeyYp5gEFV3W8f unnamed service		0.045	
1DRUcwWbuAwP2aawGS8mYEnP unnamed service		0.27	
17kkTWavckrMFMmqjoRkoTNM8 unnamed service		0.01	
37CteejrvBis9ENLovmToM3Ub9Tv unnamed service			0.015
365py4Wqb9GoZUGTerkowbhcQr unnamed s	0.011053	0.011053	
187MF5dsl Velic.io exchange		0.705	
bc1qck5z0vqtsy9ed9kzv3597fkxv7 unnamed s	0.008384	0.008384	
1rfwwnuBxqneZY7jYVcuy5tT7B1Sl unnamed s	0.00364	0.00364	
1HZqayHJRpvb3TR1LaHYDt6wHgn unnamed s	0.007391	0.007391	
323sLS9KHbzWJxptoYXH5LUrvmP unnamed s	0.299698	0.299698	
39h9TihWa1oJvRNCcupc6fj6UTAIy unnamed s	0.007888	0.102888	
3QaQ33KSoPVYmZtftNe6mXt5R3j unnamed service			2.21
1QFiXEiat4rqBjM7SM5Fjd5u1Grkt unnamed s	0.01461	0.14461	
3Pqi4RLmbDvay7EduVYt5y6b4RM unnamed service		0.02	
1GNaQh78sv5stUowie3Bjs4U1MZ unnamed s	0.001019	0.001019	
3BJBp7oBBucC6HSJ13SUADGfvP1' unnamed s	0.017357	0.017357	
1FcpBFzARPF3QNrNBMHDvifqjNq unnamed service		0.02	

1JDapbiQDnzVxLpztxiF6YvMepJQj unnamed service	0.015		
122ujMmwdhta7X3CKAFxmBmEj8 unnamed service	0.005		
bc1qwxqxqmr0flh64ey6kqhn4asx unnamed s	0.005177	0.005177	
1EYEx7DoVXbhs92oFJYXzuewjHaC unnamed s	0.037048	0.037048	
36TndHDYtZEPoBKzkJ2hgaXj4X83l unnamed s	0.009803	0.009803	0.065
12yJecG2g2bj5pmsLyvQPCHDKBt4 unnamed s	0.00826	0.00826	
1MusK1yP Musk-Prize.com scam	0.06665	0.06665	
36CWK78UybVM76SV1vhAaUA34 unnamed s	0.01658	0.01658	
1JvnV6PyTKgeNUhoK79KvvrCBrbS unnamed s	0.0144	0.0144	
1BZvhaUx6 Bitaps.com merchant s	0.04231	1.49731	0.005
1135APUp Binance.us exchange	105.9653	125.7803	0.325
1FK2pFvFmCrjgSZkpYChAM2t4xNc unnamed s	0.001704	0.001704	
1PUJaeM6 BitroMarkets.com scam	0.001656	0.001656	
bc1qam8yddkqph6n5hngprpy3m78 unnamed s	0.019506	0.019506	
3QZvGETgUP2HZgMcskaJqX2z24a unnamed s	0.00494	0.00494	
1AajfmCZu CoinifyTradingBolt.con scam	0.005685	0.005685	
131v6kzpWrpZrxTs9WADaDGNda. unnamed service	0.005		
3Pgcr21tVyfbKW2HoGpGvzt59dXc unnamed s	0.002265	0.002265	
bc1q0xmpqzfk0gfk2xmedps2l24cr unnamed s	0.007939	0.007939	
3PDysWYJcyurNV4e3H79H3gaC3k unnamed service	0.005		
194DnA1FrjzVq6CWy72kJos2gkUc unnamed s	0.100859	0.100859	
1128Ev6iM Binance.co Binance exchange	358.5268	3.0043 1047.792	222.1593
1MQUG4bZ9LHHigSDiQy78eNcsRl unnamed service	0.02		
bc1qk8wwsr0awjumazt68fjsx5f53 unnamed service	0.02		
1BHf5rD7N Stocks.Exchange exchange	1.654632	1.799632	0.01
1818YkSVMzjoKY1Dd6dZ5yXD1Hd unnamed s	0.015227	0.015227	
3HgkEfDdA BitcoiniaCs.com atm	0.02		
1DBCHdsZ6Lvzx6wCTBHZm3doFxf unnamed s	0.018692	0.018692	
3CTMyWfT BTC.com Pool mining pool			0.285
bc1qgvvtvltmnR0k3js4vlgjxp8nxzqi unnamed s	0.003159	0.008159	
3QhVjnvZXVzZuMXgkyufexJVR8M unnamed s	0.001424	0.001424	
1MLd4zDg BTCMarkets.net exchange	0.315		
1P7HT5acjnBALmrGaMLsGMne87 unnamed s	0.006033	0.006033	
bc1qr92rqy3w6tqnndxs5zqcq7sps unnamed s	0.009112	0.009112	
1Ns6jFfKu6yH7bpxNxMtGSZWxv1 unnamed service	0.075		
174P3STmbmHHY4HSQboiiZuXmn unnamed s	0.009737	0.009737	
33Hbf1svoXHieq7hBHy6ALh6PXbv unnamed s	0.0151	0.0351	
1ArqmXkxNQhxKBWFQAwX5S9F8 unnamed s	0.000846	0.000846	
3QoxdKXv8xLadVEGczWiNsLmFGl unnamed service	0.025		
1PmoH6QnAt7iWyPM5vWmQ6Dc unnamed s	0.001589	0.001589	
347KzY8udcXUZodyTBmSuDRNZP\ unnamed service	0.005		
1Bfsj8LWVtuCkfhGi1kirDR8Tm9ki unnamed s	0.003207	0.003207	
34QNKdpF ABSSystem.pro scam	0.02		
3DWVbJwotYFGHpVUsGuoUj9mV unnamed s	0.010966	0.010966	
3DuXfU3BvqyVWAbBHb2uJUhN8k unnamed s	0.002266	0.007266	
361SutatvucBNkTBZvmNPaxThLbI unnamed s	2.363718	3.933718	0.08
1Hz9j8va3 TradeFX21Mining.com scam	0.009154	0.009154	

3Kn181DM2tKfDF2aBmW61GccV: unnamed s	0.021044	0.021044	
3J5A7ni4wnBTMGjs2iwdJM8a4J2C: unnamed s	0.087312	0.092312	
3Er1VLxgfd5vUaaSHUVj2W9BPeXI: unnamed s	0.530355	0.530355	
1HhVMYrx: Bitstamp.n Bitstamp exchange	6.78347	9.65347	21.885
387rtKeNCi1W2pu6uFWvJYZH2s1: unnamed s	0.141256	0.146256	
12xjTvg1aqK9Jc46N4cxTLiKnCWnI: unnamed service		0.085	
bc1qn3fqg: Reported as Cuba Ran: ransomware		0.05	
38ZqHMMtvQpxZHF3cc5ZoxDZcgC: unnamed s	0.007926	0.007926	
36HyjWwP7Z5rHqP9pi52tbGfBPB: unnamed s	0.065115	0.065115	
39Nmsvj8eFjtpzHjzLKUMVBT8YBk: unnamed s	0.003272	0.028272	
1DxsEFmxcV7sCp2qc4FGTnqSWLP: unnamed s	0.004807	0.004807	
3JZiYC4ASHYsJZeAzqZ2A1Rd3HNrr: unnamed service			0.07
19oEeFqtnPL57htTNSX1otYeSkbjb: unnamed service		0.03	
1AdjhHJyTj Twitter Scam: Fake Elo scam	1.432234	1.432234	
1QDEWLUNQ7uKWfy5sgzrKmvRb: unnamed service		0.2	
3QWRQ7jvq6J7zPEy2dkLLOMd41: unnamed service			0.01
1EZ7vNjrQ: StandardAssetManage scam	0.003134	0.003134	
1CNZ3qPoR98rQwfZ3jGdoAqxQ1: unnamed s	0.40142	0.64642	
1HYDyGaU8ueyQo1fLbXTVowFan: unnamed service		0.01	
1G3K4y99VAb6vUc5A8QHVGqZz8: unnamed service		0.005	
379UmsuKWNJ1nwDJm9tgP7Bnc: unnamed s	0.003191	0.008191	
3AQfSWLZH9djEpiZ3kP9g8pB4zjsk: unnamed s	0.56656	0.65156	
14wxmAB8 BladexTradeFinance.cc scam		0.005	
12ZDggFG3 YABTCL.com gambling	0.001997	0.001997	
1tiV7WrZKeHCgsqvxWn5wNvaD4I: unnamed s	0.00276	0.00276	
18N1CJqm5eg2YggKwj HSC ML clu: unnamed s	0.498544	0.498544	
bc1q6dprunrwqugywe50j6l5amsp: unnamed service		0.005	
1JGZFQFyc Big.ONE exchange	0.14326	0.24826	0.195
13LpEby4TBA2WJfjnd68jfukDgstq: unnamed s	0.011193	0.016193	
17vnh4GeZaRhBMk7UcoQMN3M: unnamed s	0.001325	0.001325	
bc1qns9f7j FixedFloat. FixedFloat high risk exchange		0.02	0.015
18emExMg Eligius.st mining poc	0.03052	0.03052	
bc1qph34n SamouraiWallet.com - mixing		0.03	
12xZoVcb1 Silk Road Marketplace darknet market			0.005
1Ap3qTVhbZu2J6ZzqcAUMURqxq: unnamed s	0.003045	0.003045	
1MZJTtGx1 SNLBTC.com scam	0.003566	0.003566	
17Ctn7KmJK8QkHggvyogt3LeDFQ: unnamed service		0.03	
33YmdKcAkK8qtqFBvs832wAsz9A: unnamed service			0.025
361oysuEzFzDHiAnRB4zw4Pxxv72Z: unnamed service		0.005	
1KMZWJZeQqhCPu2t8YXVzd39cM: unnamed service		0.035	
139dXCsABoMWXjab5hgEahVq75: unnamed s	0.002412	0.002412	
35xhTTM6n2H2wf6HgZ48cKLR42: unnamed s	0.297921	0.417921	
1GtvQHTvGRKRcwZUXB6T7BhhL7: unnamed s	0.006495	0.006495	
3FCQkEMUqdPqE5RHAVpnRfCLRC: unnamed s	0.044775	0.049775	
18sRUqwy: Coinfloor.co.uk exchange		0.065	
3JbXwLVM ErisX.com exchange		0.07	0.05
1Dc698AivHSTMk27htJk5mF6vmu: unnamed service		0.04	

1BbtuMzUwpK49EfxEjBaxJwciZdei unnamed s	1.328642	1.448642	
1BaJJQEb7JbTxEb6zwaVG14oUEfC unnamed service		0.005	
1PBAGN4LwiusVnXLQLSpMNLCFju unnamed service		0.02	
1KsB9nho8 SlushPool.com mining pool			6.67
bc1qef3uxzycqquckd04pdddf7d7h unnamed service		0.035	
1D1LHUAX Coinmate.io exchange	0.235181	0.475181	
1HRnPikH1QoqhCXZyDw6yQndh5 unnamed s	0.001819	0.001819	
17NNSnfj95nXsN1k4B83Mj35QLFv unnamed s	0.006439	0.006439	
1EDDjanhsbirq2epnTArxNasXGLSi unnamed s	0.015569	0.015569	
192E8sjVfxCBJgG26HL6q8wzpSYZf unnamed service		0.005	
13JQDe2ciobrvhkgVx8REZbX8bbD unnamed service		0.27	
1ArQegpfi3 Crex24.com exchange	0.734684	0.774684	
18uXkATZRoSDNfHWfy7TgeuK1sji unnamed s	0.052475	7.047475	
3LC8dDKyE MARA Pool mining pool			0.01
12Ys86VrxNFKBwDHeKj7qkyMvh6 unnamed s	0.014283	0.014283	
1LoHRWE5 Crypterium.com hosted wal	0.874771	1.014771	
1GUL3ZrwLrQ5o6uj2FYrK9RXjUtXI unnamed s	0.022273	0.022273	
1DJEYjUwekbKoTBk2WQxsMowsF unnamed s	0.018347	0.058347	
bc1qj8u84pgZz8hjep7sw853zmxkl unnamed s	0.003497	0.003497	
1ESc6PXEEAA1CpndZFSTzpwXvsvKF unnamed service		0.015	
1Lsv4HAgH7SkQ6CVQB9QmR5cwv unnamed s	0.273222	0.288222	0.01
33j5NFCibc BetFury.io gambling	0.901055	1.466055	
1zLt7vs5QJvApymG2CbHUo1rNVC unnamed s	0.006936	0.006936	
1FctNT7B8ykugfj7XemV2SbuiA5Xz unnamed s	0.03734	0.03734	
34YKBQwqHfwwaWiiVCUPiZVFBCjz unnamed s	0.001112	0.001112	
3FGn3EMF Vclub fraud shop	0.00172	0.01672	
3GEC2Esthcm9VgnPrPdfanphiCP unnamed s	0.02014	0.02014	
3K8CTWUTUCwtt4s6y7avdUxsJ1X unnamed service		0.045	
17si2uq7bFNHvbxertAUmyuRfgeK unnamed s	0.000842	0.000842	
19ugUjBdC SkyCryptoTrading.com scam	0.004825	0.004825	
1AWvwhZy Spend.com hosted wal	0.124381	0.189381	
1DPzSpMXd85Cd72r2jF4P2H4yEKi unnamed s	0.006458	0.006458	
bc1q9ny3x386v7074qpn4fmze2r3 unnamed s	0.03989	0.03989	
3BYUBv9EuZMnCAiH2XE4TChsUd unnamed s	0.20789	0.22289	
3FkdbdMf1z Konvert.im high risk exchange		0.01	
3BvxiX5ck6 CoinSmart.com exchange		0.075	
14huBQm6BfcqMrrYAOGAxWYXB unnamed s	0.01196	0.01196	
16vbzq7vAZaHKCuSPdtviN3tDP1' unnamed s	0.000966	0.000966	
bc1qwk930wrj8a05hgqkxhww7an unnamed s	1.354	1.384	
1HknzCBfiV NetEx24.net Netex24.cc high risk exchange		0.305	
1DNHtBBUXqV4wKTi3uh1cigmxAv unnamed s	0.00798	0.00798	
3BgWGLvDNun6gVNjvy5fu8ypcdl unnamed s	0.008005	0.008005	
1PN6souJmyHFGn47FPuP8TGYiSJt unnamed s	0.0025	0.0025	
37DwDeLCZWEG9hGVmn87wo2V unnamed s	0.002129	0.002129	
3Px193ZPbnPFm9iJmEF8G7ges3V' unnamed service		0.02	
398SQPPT9ANLV8SSh7ggvscHjHdz unnamed service		0.01	
33YR4X8yC B2BX.com exchange	1.213442	1.793442	

1Fc1yT7Eu6M3AWj2XogEVDVXZr\unnamed s	0.000885	0.000885
1DeBhNp73ExcFmZG1EoiuJr4Jry6unnamed service		0.06
3KRToc5Bv YouHodler.com other 2.195231		2.535231
1MXBqiZLDV91a4WMLdMv3qqgj1unnamed service		0.01
36k7bhErv: ExMarkets.com exchange 6.128501		6.138501
19tppHPewC4SUEEoPLDJtLCyEUSunnamed s 0.08656		0.08656
3BZreSq2r CardBazaar.com other 0.035312		0.035312
1BBsxjQNo8nHAoumgNFPDTQcUfunnamed s 0.002647		0.002647
1CyFs3t7Y2TVyE2GYaCskYZkeJkLXunnamed service		0.18
32tGcgBWEAfmWQiMhkWgGMXEunnamed s 0.014454		0.014454
3KdxSrw9VCqZiaZxok4GkzWkaXc5unnamed s 0.004026		0.004026
3FKt7vqhnBXNuLXkwPFCfp6kho2funnamed service		0.065
bc1q7dmjqztn342e7qyl4tlfyqc8mjunnamed service		2.405
36TiSCgUjX4MVvTC2MoncV3Xa3gunnamed service		0.03
1FsSjYWDFc1Y6ncUN1JDNFSuJWsunnamed s 0.01009		0.01009
34yeN7K2W6Ghv9SsP2VEvWsZChunnamed service		0.07
1N3EsHp8GSApcf7JodhfWBk4abnnunnamed s 0.001776		0.001776
3K49BvzCgV4WgsuLtPanH79saJZnunnamed s 0.001701		0.001701
3Mg6gYsXl NiceChange.net high risk exchange		0.03
1AWmgKvujeBDvdbECuVDzwxJjiunnamed s 3.17943		3.47943
1Mzgh1Dt3AEvUtAjHu8CiwDJUWunnamed service		0.015
15U8DHhcZ8b3NrMt36gtufs2K4Qunnamed service		0.005
1FhJYVL7meU3iJdfcXLMVAc2HGrunnamed s 0.108812		0.108812
13JY5mGhcBCAXbfjpHk9qpA2SbXlunnamed s 0.002159		0.002159
1KvXGMCa DiamondSB.com gambling 0.311412		0.341412
1HhZNpq85vQgTjCgRqjdJXpKPkwnunnamed service		0.105
1P2g3cgZs4EtsKQqTW4mf7ErJs7slunnamed service		0.155
32GZXLRrjP1mMB8wLmVjd38CPTunnamed service		0.005
1Q1vfZekFD9z7R6gFYWSKGB8mVunnamed s 0.005302		0.005302
3PEUSaFc7Rr71qhpyVPHQk562Pvunnamed service		0.03
bc1qfujyqvj72w7u3ettguzngnut9tunnamed s 0.011119		0.011119
1HCqQYdajGxZkC9cPWJvZaBDqzounnamed service		0.4
14WssHT4kEqECFJVQ62SLbsg1N8unnamed service		0.06
1qojApGjJyszPkhHKQE6ZeMZPYLLunnamed service		0.005
3GX6jt6rWRuPMZVeD4frSKKYsKGunnamed s 0.001007		0.001007
3MjMMspzBRaCqTmjWChR8u91Zunnamed s 0.004175		0.079175
34mPEQE17R5DNdsMzBJxmKd28unnamed s 0.016816		0.016816
33MQJRpHpmMjHwjsj81iXX3wwunnamed service		0.015
127L8RW3uXTUXrq1uiQMrTtKLmlunnamed s 0.003233		0.003233
3J7dP143s6ESEv4E1qdRtkqJcoUDunnamed s 0.017046		0.017046
37XByDio4u2n6y2FXaKHfHfXZTgunnamed s 0.000607		0.000607
152yDcY5UaMnpR2GsspKxLsMtBunnamed s 0.011312		0.011312
3D2yXUT68XWyPGGFqrBcRB2KJ2Iunnamed s 0.005967		0.015967
1CKirn2ecNPDMpBQkuhGGZhafebunnamed s 0.005168		0.005168
3GPxhsV4tmDZWm2cToMH5FNf1unnamed service		0.005
bc1qczrv0f SamouraiWallet.com - mixing		1.115 0.005
3Gh3429v Anchorage.com exchange 30.2427		30.3727 0.66

1KH2sNCzY Payeer.com	high risk ex	0.329465	0.864465	
16wYXUTy1rdnMVRZLDSO1H7LSN'	unnamed service		0.005	
1961QXNGq1uYpBMdAf6WWiCpY	unnamed service		0.025	
3HfrTrDaeSib3Anb37wwohP1VJXx	unnamed service		0.01	
3J2RBCYAr2LqveLhpaaFAEMULBn'	unnamed service			0.135
3DJS6u6kJAnFkWqnkURXVyAyNU'	unnamed service		0.005	
1GQNWLAxXMHwFhatYc4jndrGTc	unnamed service		0.34	
3PEqVSoa1sLLUnYL8pN7FeM1M9.	unnamed service		0.015	
1HGym3Kf. Bingbon.pro	exchange		4.69	
398Jd1Gro8HohxCDx9cSxpPs6LX9	unnamed service			0.005
13JGjAhwwXLGBjM5QMa7yCozEa'	unnamed s	0.003055	0.003055	
1Br7hE5jLFce6TpYDQapfUuk649gi	unnamed service		0.015	
17RrdGXGy1zjPFh2V9xdE9kCTG5Z	unnamed service		0.015	
31hVzYC222xdPNLVgW5fPSj4G9TI	unnamed s	2.651601	6.261601	
1QHDzxYfU1uKJGzsd5xYEaF7RPD'	unnamed s	0.001068	0.001068	
3BvcKp8nH6yd1GJCYPEzxtYoszTX'	unnamed s	0.001603	0.001603	
3F73JJN99RU7f62oN4zG4d1CCtq5	unnamed service		0.35	
147QzSkc4bCiZwGQsFvsXvq8ZnSn	unnamed s	0.03418	0.03418	
1DCWkeZvxCcRDsT3uZk8qKoMbX	unnamed service		0.005	
18TXrPQcr1StttfYTERjucq51uWfn'	unnamed s	0.088855	0.088855	
1BkK5gaB1ENbdrvRNv6eXA6pMs	unnamed s	0.001713	0.001713	
1Bdj5n4C5. Block-Bank.io	scam		0.005	
1AEfunFgx6CBXtnaMj93K5c9ZaLcf	unnamed service		0.01	
1MXAk7NF4BrQwERTAVd3onSGR'	unnamed service		1.815	
32dgjvc5DjU4mWDXhZCEUYbBEt'	unnamed service			13.75
1JakRHK8u NairaEx.com	exchange	1.160423	1.980423	
bc1qtfnysh BitLocity.io	scam	0.023862	0.063862	
1H2qqP4L3 LBank.info	exchange	0.170616	0.275616	
1EmhqHhP6GAqhisZ4yTvgUbGvvY	unnamed service		0.185	
1G5YyuFVUdnRxMZzbMgDjMgqjb	unnamed service		0.005	
3M7SeomCZRMCTF4knnwcubpyP	unnamed service			0.535
3D1zNxiVb CoinList.co	exchange	2.176043	8.331043	67.865
3Ecwy78zvpEzWFZFnfDkFdU3eQy	unnamed service		0.01	
37R1UYNr8dbE8QHkRgujiUmLWT	unnamed s	0.007473	0.007473	
1BAiBytCeDpHq5RdHw3JgNxpsaN	unnamed service		0.015	
3ErHhbVhTcCSif8X9rzsvYS2C6qirrf	unnamed s	0.002	0.002	
13xHAVXnv9ZpTBWSYZNN8unyjuy	unnamed service		0.04	
36dnPjsGc3zZ8wqpEbyuDxCdZNj2	unnamed service		0.01	
3PsPtfp8zh CoinBox.org	hosted wal	2.214252	3.394252	
1Ao7UoorBx5PDKHSUpogqbGA7a	unnamed s	0.002687	0.002687	
bc1qcts655dw7vmjnypmx2qvtcd8	unnamed s	0.00026	0.00026	0.01
19uH755AqdzbtAQ1hmNtFzffQrW	unnamed s	0.001556	0.001556	
36P1HAhhUXEWnoEcy76mcAPN7	unnamed service			0.095
1DrK44np3 Bitfury.com	mining pool			0.005
1HvDfUCw7WPNkdmh6yb75zvJjzf	unnamed s	0.019684	0.019684	
1EDkou8ctPbiWqqGr9ukWRnVxxp	unnamed service		0.115	
34TFzoQ4AyWKQA7GD5J6MPLJZv	unnamed s	0.006752	0.006752	

324VHEaDI ArgenBTC.com	exchange		0.015	
33P4Defim FTX.com	exchange	112.3835	125.4185	91.27
3M72mGc: Altilly.com	exchange	0.450616	0.465616	
32UXXFZcSHxUgb1n99eVCGpE6W	unnamed s	0.005713	0.005713	
194cQW4YK4rG1sXrozscT5hXFNkl	unnamed service		0.005	
1MCmJ2SRQ82xKGoRc	Unknown S	unnamed service	0.03	
32CFV21maHm8Yx1noKMjXWQEC	unnamed service		0.035	
1NeVopN1eJvLVqSziu8VX3fAEh3c	unnamed s	0.006144	0.006144	
3NM17if4a9jPhnfYAzEio1Fzbtsfjj5	unnamed s	0.016866	0.016866	0.075
1ATx1JzfdmDLgrNefGCjiDYbQZtoZ	unnamed service		0.015	
1G1mtZTxF17UYUGR5XwhccEatqs	unnamed s	0.010408	0.010408	
1BLDvrP778oVNCHpjV6EkFgzVZo5	unnamed s	0.007303	0.007303	
14nnqC4xexU4vLpV1VQpAJ4BwFL	unnamed s	0.00542	0.00542	
37o7WvD9TRBuh96nX8XRbr3kzDI	unnamed service		0.015	
bc1q3yqae802luep7av0pn88h87z	unnamed s	0.017821	0.017821	
1252nvxuXBJGmTrXdQdDUjktf6V	unnamed service		0.005	
18WrqSYCJJJ3iQmrcnJZrQi7yknuV	unnamed s	0.006608	0.041608	
3NC26Rqgj	Namecheap.com	infrastructure as a service	0.075	
1Ew8izi8JPn11C9nRcNEN8Efh4bx	unnamed s	0.0585	0.0585	
1GXrcR1yJ8ciSeTrr4GL91DhoC34R	unnamed s	0.005	0.005	
1JHPYo9D5AuxXLYf9D1rGDs1YW	unnamed s	0.000735	0.000735	
1HAeRBqxt	Bitzlato.com	high risk ex	4.299106	0.005
1Aca757ovcdYuZQnh3X1iNFknrry	unnamed service			0.005
1HSAMnG4gXagaxJPEDnZttsR6PiV	unnamed s	0.006137	0.006137	
17pQodquEr792V3hEJWqeQDi2KE	unnamed s	0.035925	0.115925	
1EtZorzi1qrVLgMGr4BkNhXsX3pF	unnamed s	0.032093	0.032093	
19gpZcU3TySt8Pka6qfg6LzkaF1Gk	unnamed service		0.375	
1779p5Dfq9iFq95VTECz2QoCrHdC	unnamed s	0.000523	0.000523	
36jTV1CcAEg23vcqMCGkYUF1fww	unnamed s	0.0323	0.0323	
37f2dNNCc	Buda.com	exchange	0.055	
1XLHmUiHryW6iQab1R1PFQKtDT	unnamed service		0.04	
124R1axxZRHQVu2fwtAqvPNQb7S	unnamed service		0.2	
3BYj9uERwRLbnRqSwHr8THtFL5Ek	unnamed s	0.061484	0.081484	
1732hug94QnUyzNmbuA9tubDPP	unnamed s	1.659729	1.659729	
3KySewdHrmLBp81REimeLG4rBdk	unnamed s	0.002329	0.002329	
1FT1LBykTI	Pintu.co.id	exchange	0.001064	
3EmsBxPS1VHGucSx5nyE5ua6uGF	unnamed s	0.065196	0.065196	
38YweVoYD7og83qLtSTHkpFKtBa	unnamed s	0.007331	0.057331	
19Jp1J2NjgWvr5XdgNKvgdQhoiVz	unnamed s	0.002825	0.002825	
3HqGEA4VPZ9bMrsUR2dYbV6pkN	unnamed service			0.155
37AYt5D8SJVN7RZujgHSFPR7vwnr	unnamed service		0.02	
14ot1U5su	TeslaGate.top	scam	0.000423	
15zN6YhX9vftb6VkJbWhLMvhE6Q	unnamed service		0.005	
32r1vcP6UWbKHngQqRrjcBpmpA	unnamed service		0.005	
1Gh4hmhXGd48x83CQcowP1FG7	unnamed s	0.011898	0.011898	
1Ea93qGeQYzbxAfUiDEZUJTFF37	unnamed service		0.435	
3H9cpuKJvW1i1UN8XiNcHnQNbG	unnamed service		0.03	

35yLKJrDjn Omega-Digital.io	scam	0.0695	0.0945	
38jbhj3nzGU8GvcqHdymeoBcJWj	unnamed service		0.005	
3MkuhX47kcz2BY4V6tJKbrkaJq6E	unnamed s	0.038996	0.038996	
35zbxntQrYf6dH3Z6yAEnXHBuj67	unnamed service			0.01
35hmRq8ZsmwHgiDEFtYBow15vfc	unnamed s	0.007034	0.007034	
bc1q7cyrfn Crypto.com	exchange	278.2725	301.8775	0.055
1JbdceMnLH67UhSTj1EGfoQXVwJ	unnamed s	0.027552	0.027552	
1FqxMo5W3ez1WwGmjXx7yemtC	unnamed s	0.077337	0.082337	
1EvPaNR81CryptoFXETrade.com	scam	0.01179	0.01179	
3J6GAV1QZAKpLfk5gsBGSDigykDb	unnamed s	0.000194	0.000194	
38a4eEn85kBoSPoJafd6ny31ZHj2	unnamed s	0.004951	0.004951	
1ABUH1XA ProtonMail.com	infrastructure as a service		0.005	
16m7oFtZ3Sbtwdw41cdSg4aEWRl	unnamed s	0.057232	0.057232	
3CwT5tmrWC1PsNBm5kuTLiMf9p	unnamed s	0.040782	0.040782	
1QA2qs1vE AmberGroup.io	exchange	1.889779	2.354779	0.22
1AzV4EoSvV5bA5vbyGne7U75QE	unnamed service		0.235	
1CssRS8mDys9fyUbJCJ5hAJtdbsBX	unnamed s	0.003634	0.003634	
1CFXtggwL BTCArbitrage.live	scam	0.010584	0.010584	
3Bihw1wErhBPLqyB7xq6e1TeTL24	unnamed service		0.03	
1GLyqEkgoWYvzK9PHDY9wZze7q	unnamed service		0.01	
1FpSihBgv4c8dsywEPVbTqu8HkPx	unnamed s	0.015214	0.030214	
3KLFxH3P4CiGMmqdSub2ycAMf	unnamed s	0.000564	0.000564	
1KRXjmMt leap	illicit actor-org		0.02	
112zx9L2xyaD97Afx1cRPR7D8R3H	unnamed s	0.001614	0.001614	
bc1qkjf9rhg65avfs2mszkuyh6qzg7	unnamed s	0.048739	0.048739	
3JyHWH3pdLhFgdQ98og5dcwJXM	unnamed service			0.195
12EDpP8PaS4HJyJ1aoxUW1sdEzW	unnamed s	1.146719	1.146719	
37b743oGxWcQCmYbpBZcF7wXCl	unnamed service		0.025	
37oWSr97I F-Change.biz	high risk exchange		0.245	
1LJ8q18Rj Gate.io	exchange	30.08482	41.84982	0.02
3CvHgk3M BISONApp.com	exchange		0.01	
3EC2JP2turqnAkENk4Uv3Dv9Xj7ja	unnamed service		0.04	
1GgiMc1iiZsPQstn96iRzNMpB19sz	unnamed service		0.01	
12qxb4cvqSXrUmazR2i2FyNRNQW	unnamed service		0.42	
1PRGCvU78m5WAzdu3maJ6UGx	unnamed s	0.001383	0.001383	
3ESZnUuAkVdHJHVQKs2PfXQxudL	unnamed service		0.295	
373wCLpZC1quHkeMhAfzSaGzZVL	unnamed service		0.03	
1KAdif8MN StanceCapitalMarket.c	scam	0.010738	0.010738	
1No48VQug37ZivnJhG4Q7DkAVXT	unnamed s	0.000127	0.000127	
3BtMxWZf Safe.Trade	exchange	0.019739	0.059739	
1NPumfz4ZyHQ3bXdz9v8pZYEE6x	unnamed s	0.017855	0.017855	
14ikK7R3x Crypto2Cash.com	exchange		0.01	
13a7TdybQmWKzLGBMqVUu5G	unnamed service		0.005	
bc1qggdj3ewpjpp3898pmwjnpvcv	unnamed s	0.00523	0.00523	
1EVt9uZaBReX3BdKA4amRVRAv7l	unnamed service		0.005	
37o1PYeJyVSVpAbBhvn2sbv7NZn	unnamed s	0.000589	0.000589	
3Lu8AWjc1amArQnfVe7cRzhNF7y	unnamed s	0.045	0.045	

33Lg5AqMFW9vJ5uwNYJZp8Bt2Fi unnamed s	0.003074	0.003074	
13JUuiWSL MiningRigRentals.com merchant s	0.024663	0.059663	
13PUWtb5TKjTeS2TKxQeSGYV35Z unnamed s	0.00151	0.00151	
13DpzY1zVNYjvCAjF12KfaJny7bZ7 unnamed service		0.005	
bc1qsjptutj Duelbits.com gambling	0.542813	0.597813	
14Y7yQAAjwzVseqqPaRumcg2jW\ unnamed s	0.010917	0.015917	
1Ngq9aoiEWKjXVkmzGHipRE4Cm\ unnamed s	0.000479	0.000479	
1He8DF3c1A8KsgnDEUrmTKx6BVi unnamed s	0.010456	0.010456	
1sVMhm8tUY4HQT4cLsZdEKiqNo\ unnamed service		0.005	
1sopd2iWAZagVjup9doU4LBz6Np\ unnamed s	0.001152	0.001152	
14w7WuN9yCU2Qavj9gdpXSuv8ci unnamed s	0.000609	0.000609	
19AgKXNrK5Fb27Ewkmyt6JufUTV\ unnamed s	0.002952	0.002952	
38guQmrWVEqtd3ST9vK7Qqord\ unnamed s	0.104819	0.264819	
3DHfcdLNUwVuqXLoBm8e8ynLrW\ unnamed service		4.445	
136dnfh49kK6xv64SJdxo2YGXJJN1 unnamed s	0.002552	0.002552	
1KDZMmDkykZ5NgrTqtu9x1Rjyh\ unnamed service		0.005	
1LKWoXhy4pvBsG6r18Mhbsw2DL unnamed s	0.131811	0.221811	
3AY8bSoqwq8c4uSmmdNAeAKak\ unnamed s	0.0047	0.0047	
bc1qqcehurvrkzkymla3uq0drl025r unnamed service		0.035	
1FPwWDqtxfmoxf3AJWGguoK6UL unnamed service		0.01	
32tXs6kFhtczuo7Qpfnkp5Hg6M8j\ unnamed s	0.564646	0.644646	
1waeiTHAf8DpDJjwX9dAzSN5ayG\ unnamed service		0.02	
32ZWgfAkGdLub4JkKkWJFLMRCtx unnamed service		0.07	
3Qf4e6MNV Roobet.com gambling	0.747195	1.107195	0.12
bc1qjr8200ftr2cluw8e99z2dynfj42 unnamed s	0.0195	0.0245	
1ApznPorj\ Coinsquare.com exchange	0.025786	0.345786	
3Lc79dEQoc57zQZQ8YKEubjnbmy unnamed s	0.001442	0.006442	
1CUMq9xk3g31yK4WP8etz1sczGT unnamed s	0.002084	0.002084	
1BKnkK7a4ez1PnMJSyzg778Jx1BJ\ unnamed s	0.001709	0.001709	
3FEkrTckS8avVmDYXBVBTdpGFnN unnamed service		0.07	
3EnSyvakj4uvKj8nuv5vYBcPoSyKr\ unnamed service		0.005	
bc1q3paw7cz3f2hx0qczla4sc90h7\ unnamed service			0.075
3No1XofHKC9VbEvrNDCXrTjwEDu unnamed s	0.00101	0.00101	
394stoXSXm3RKdY4Y5xwm7A5rC\ unnamed s	0.000532	0.000532	
33Epdr9GZ8ZguTSrpRecPnA3Qv4E unnamed s	1.175622	1.205622	0.005
3PfvP9eAHLPyTxJib7KXBhdzSGqg4 unnamed s	0.001057	0.001057	
1GYzwNWDqncfLPqTpUQwoSjbW\ unnamed service		0.03	
3CSMjSbaVWnGQvUgbq8vWypux\ unnamed service		0.015	
1UoMpa5zah8Xqdg8kp3XSNwmCl unnamed s	0.112125	0.157125	
1EiZ3sjZ2gev3hRpmtxvMeuCxCnc unnamed s	0.001001	0.001001	
3Mmq3x5gWv1bQEn3rY31xVf2dV unnamed service		0.015	
3DkERKBdFpLSPEyxpesCzmSTv4\ unnamed service		0.01	
35EDMUeUJHUZmoenhVNi3sTS\ unnamed s	0.004666	0.004666	
182xE6C2LYuF9pSXMrpkrEqeeJv3. unnamed s	0.002082	0.002082	
1LBzvwBNvby5sv5NCYPscbScCQ8\ unnamed service		0.025	
1Emy12njhyzogsniaNziaobUnVS4 unnamed s	0.004255	0.004255	
37CYkpDTCzghKQAAH6iFP7aFKfvT unnamed service		0.005	

1B8wa8tkPFt4QXxYrUhD5ufspfvxt unnamed service	0.445	
1M11UTUL CoinGate.com exchange 0.040156	0.310156	
1NKkdnGahpfgiET8f4CCNsxMUraI unnamed s 0.013151	0.013151	
31ivTzCDzLhTxYUGTZvrZxV6wa3aI unnamed service		0.045
1LB34q942 CoinEx.com exchange 11.85551	13.58551	0.025
3FG83TZL3 CoinSenda.com exchange	0.02	
34AbWGMSP4GPT3Sw44JaR7yPgI unnamed s 0.068848	0.068848	
1JAbJh4zpHCD7FpXEKuedwq61XF unnamed s 0.021244	0.021244	
17DAhq459GoF7pzUzJgskFH6hPXI unnamed s 0.0025	0.0025	
12Qw1pXboyQSa98xrWgq7hiK5K unnamed s 0.012505	0.017505	
3Q1B7Lnq4kAgHAUCrr7M8WmZA unnamed s 0.002813	0.002813	
1KHfZZHcaowhuZ2vvpSs66JKx5yt unnamed s 0.186093	0.241093	
339AcreBhtBqkXMiT4XhvkZK7G8rr unnamed s 0.00762	0.00762	
13h4yuqCf Rahakott.io mixing 0.085911	0.095911	
3QNiP3fKijCRFy9AfdFv6vj71Yo8D unnamed service	0.005	
1FGUkYicC OXBTC.com mining pool	0.015	
111hvbgaN BitForex.com exchange 25.80174	27.01174	
1DXvHrtPjPy92tMYmEf86w5uKnk unnamed service	0.005	
1VBqZ34jN AnalyticFXPro.org scam	0.01	
bc1qwrvk03awg3gt5z2kewv97hvf unnamed s 0.001738	0.001738	
3Df6uD8rw CoinHako.c Coinhako exchange	0.055	
36dsFFhyxl DarkMarket darknet ma 0.442535	1.042535	
bc1qjmsl360kfsvazrl2x9qfqujugk9 unnamed service	0.025	
3FuRaYzp1491KuM1D69zaXimXqjl unnamed service		0.005
3Htqku13GaXrHjhg5DKuEuuiM2V unnamed s 0.007507	0.007507	
1K8Y8LniU CoinApult.com exchange		0.13
18w7QogsjGG6mfEZMmB3gHnu3 unnamed s 0.001255	0.001255	
16zTPDnjf9mNummSyKguSF5eG2j unnamed s 0.016588	0.016588	
3D1tr3hpj3 ChangeHero.io exchange	6.925	
1EPnQA1s7 ViaBTC.com mining pool		0.04
1AczoFtp9q1UzZpkfedLuTdkBfMG unnamed s 0.001435	0.001435	
36gMwopsX6PsyZrJt2EwWMK9Bs unnamed s 0.000169	0.000169	
1F7Aw1hZ9rt9AYWTYerskPxqGzA unnamed s 0.072885	0.117885	
3E8ociqZa Bitcoin.org Donation other 0.000531	0.000531	
36b9skt5Hfq6nRX5K9S3NVQk8AY unnamed s 0.002594	0.002594	
12bDQ42F5rCzm5iGvZvSaixmCHL unnamed s 0.027024	0.032024	
19AfYprQKyrftn3C6kreAh5S4jHZcr unnamed s 0.009474	0.009474	
1K6bRhknHGQVV7naHG26xfCjfQ9 unnamed s 0.000675	0.000675	
1JVkdRT6fpZjAtCDS8eHAsZzWiJNc unnamed s 0.010368	0.010368	
bc1qw7qmr8h3pz6m3nmqchahx0 unnamed s 0.002729	0.002729	
17eqcxoRsDajTEPzSSCqjktdhq3W unnamed s 0.094	0.094	
3BmHSCCPVgPj5j8hniQymo1Hdf unnamed s 0.039124	0.039124	
1JvBwX3XE Coinswitch Coinswitch exchange 0.250164	3.440164	
37tDG8GXek5VrZYdNUm9xPTRMf unnamed s 0.000662	0.000662	
3DnNCSBpECV69J53XDSYbmXwcA unnamed s 0.18991	0.21491	
19aAQUNgHhm2rhBbcTtFtMfLt6o unnamed service	0.285	
1LFt8DFSRQyYS5QuE4sRkPR9Yiuw unnamed s 0.024472	0.024472	

1Azx9xp1cybD1QvW59Rdyh5y3sK unnamed s	0.009147	0.009147	
1G8eNoD1 CryptoProfitTrade.com scam	0.007	0.007	
bc1q8mvj3rj9uk4fpp7c5f2wc65az unnamed s	0.072857	0.072857	
33Gt5JmtQ55G2ggFAedrWXqKn2f unnamed s	1.629982	3.714982	
3GDgbaYyc UPbit.com exchange	0.22426	2.31426	0.04
1PbG8BXgDm6ANRbrPm8k3Joa unnamed service		0.125	
bc1qwxjxjekqs8v3e9gujsjrK0fkqu9 unnamed s	0.00266	0.00266	
3288sqB1E1hPmoJ3VWeCQbJMX unnamed s	0.047244	0.052244	
1KX7kxM6: MyFXChoice.com exchange	1.674683	1.859683	
1NXjqCWN AirdropStart.net scam	0.002	0.002	
18F4wHZNS6db88WGgKsRqx3oU1 unnamed s	0.027883	0.027883	
1EyEP76sRAQRYtNt753tpxVrNNG unnamed service		0.015	
1N3Z6Xt7obNoQtqNhS1P3nWeR unnamed s	0.016194	0.016194	
14NiMxcMpTHiVcenZRJpYu46zS8 unnamed s	0.009961	0.009961	
3QfCsftaotgRh9qR5eAiyHmV6Uyl unnamed s	0.001433	0.001433	
3GTyV8cm: PetronPay.com scam	0.172084	0.202084	
15HfdDGYP29J1MENCaC7KCWCq unnamed service		0.005	
1PktPwDM RenrenBit.com exchange		0.075	1.145
17v5W4TS: Zenocapitals.com scam		0.005	
3FYPWjCcvoHBcsCe6P9dr8RhMqL unnamed s	0.004169	0.004169	
38w2gQckM2WKKKjrVWu7WRzY unnamed service		0.005	
1KoVusCzgzbtUK9ryfDJohByeewY unnamed s	0.003685	0.003685	
38i7L9G2z8Fh9JuZ9fFtAWShC4K2 unnamed service			0.01
36a3CNJZDfzgVva5t5wmpeT4A6e unnamed service		0.005	
17umSuXyaPWmdbU8562cKZHW unnamed service		0.005	
1PLF4HuhSgpnBJ1AdjDHK7cUYFS unnamed s	0.124147	0.124147	
1MTYaSB5JyQRLaUnxkpfvJuhNF6 unnamed s	0.434513	0.519513	
1B6TM3epET9STSqg4pp1mF7CyZ unnamed service		0.02	
357Tq7eRyoCZkb2RMifrvmqZKjXn unnamed s	0.000702	0.030702	
15qBmRM1zSMu3vn8TJew2JR4A unnamed s	0.018373	0.023373	
3AcAhDeyNLpUc4Ae7mR7QhzrwF unnamed s	0.014923	0.014923	
3637STgVH5tV7hdHf5H39p3AoGE unnamed s	0.002447	0.002447	
3QfqRAK31CHYMall.net scam		0.005	
bc1qukshladra85ace889gcd68khe unnamed s	3.419553	3.644553	
159f2JjHxCT2QhqDQ63yKzqNY5Cf unnamed s	0.233703	0.273703	
34wtZ7zeYdKiGhDsgsSnxRhaf13h1 unnamed s	0.000708	0.000708	
18tMMG8XZe8iER8rLS8LuCPDutL unnamed service		0.09	
1ChiJu9XUI Btc2pm.me high risk ex	0.066105	0.126105	
32oX3gNd: BitPreco.com exchange		0.21	
3K1Acf2XQ Prosperity4x.com exchange	0.076124	0.091124	
1BKtSn86P BiKi.com exchange	0.064589	0.064589	
bc1qah6x5427gkelk3qr4f23ag8z8 unnamed service			0.105
bc1qqqp4da40dhxpqmgmt5wjvkgui unnamed s	0.015	0.015	
1PXvVQxqc Buybest - GoldenShop fraud shop	0.004431	0.074431	
356tHo3ULTT1AtgUa8exUepBqwL unnamed s	0.002287	0.002287	
12r6YdbFM ExpertOption.com exchange		0.015	
1ErpF2KykfRSrVvwtVS92FysvNWp unnamed service		0.035	

3DCVEaDjSbrZdA8n4tGGJ5xnu484 unnamed service	0.005	
37HsYT4GwpUQpweScYHyQgjaUff unnamed s	0.000925	0.045925
1GQQ1yQ9GHwu2TXfuAX7iqgieTk unnamed s	0.011885	0.011885
3EDVMN8NZcxy8xEK3vrxriHeTaqC unnamed service		0.01
1B7Eicj6vEKdrF5kNNPmwAN8x59i unnamed s	0.008505	0.008505
181Tgyv1gD5eXMDRuxb74NNxajv unnamed s	0.00171	0.00171
1AEWnAjtR9BSSJ1J4hGRvinCro1Kz unnamed s	0.015905	0.020905
1PUPysYwc9Jojk1pdmLoza9f3gD8 unnamed s	0.008699	0.008699
1Gh1oAJH2w6amhSGJ7NESQWuX unnamed service	0.06	
345hWybWUvo2ULBWFCdp7uRW unnamed service	1.575	
1DGhbi6nx Zaif.jp - FISCO Cryptoc exchange	0.03	
32ApDqp572b8trc6NLSciXaFytseB unnamed s	0.008574	0.008574
1Q3sXhqtvoovDGo7TKr5eXPB6KZi unnamed s	0.000987	0.000987
12ffoHdvxQmbiPkAK8XUJN8qVm unnamed service		0.02
3GQ2wNLZ9HtCRSrbAAAtZ5SZ1Bs6 unnamed service		0.045
12xbfRV5m8R71thQc7FhKeFdSz8C unnamed s	0.017447	0.057447
3BMEXuaj BitMEX.com exchange	7.225745	11.51075 9.15
3KEoSJnL7nhGNtg2h53eJWyxdWt unnamed service	0.005	
38CD4hhaGvRbxoGsLUS2NVfHYU unnamed service	0.01	
17KCo2pjyVKEz8j7HTq2fzaNEoeD unnamed s	0.001933	0.001933
162QZxHSRC2nTLQuikH35m6EoiE unnamed service	0.005	
1MCPcGbn Huobi.com exchange	5.581902	23.1919 130.355
1HrWX79CsRokhYgQYmHuqYM5u unnamed service	0.045	
1BdYF4dH2 AscentTrader.co scam	0.02573	0.02573
bc1qk4s0gj InitialTrades.com scam	0.251968	1.801968
338dUSR3V2ddxt2K6s75SuAk553s unnamed service	0.035	
1NuJozjZHkCqHe6o9Xn7re9D2RW unnamed s	0.001752	0.001752
14fTKFKKEpbkUoPWJvhhbuMr6yL unnamed service	0.04	
1Cm6YkTM Kuna.io exchange	0.325522	1.395522
1DWxysF7GPRYGShNxL5ux2N2JLR unnamed service		2.385
1CgWKj81dNnLHLKT4gFYu74dsdc unnamed service	0.185	
bc1qzfufy96whdcdyy7y5cjtknumt unnamed service	0.015	
3AjRaoDCA Roqqu.com exchange	0.507796	0.697796
38CXL5ZmNn7aciMZ4Q5k92RWgP unnamed service		0.07
139Xet5aGAfFn5ByW6Pk5F9pZg6 unnamed s	0.8843	1.7693
19qCf1YF8 Stake.com gambling	11.69898	13.37398 0.055
36terEhN72rpdP6SRcAsoBLfiyDhC unnamed s	0.000338	0.000338
39ot9YgGe GetCoins.com atm	0.01	
3AJRhWyParzm8kt5sbV7rfM5hNz unnamed s	0.183449	0.228449
36x5UzqA8Cg4vQk8VuzBuBzfM36 unnamed s	0.013655	0.018655
1MjHUCYnr bitbank.cc exchange	0.015	0.005
3GecP9riVCw6Ma6MY3GrerVwgic unnamed service		0.015
3G2LAtU3Wx6nwkQFrYuziqjrRW2 unnamed s	0.006587	0.006587
3EaYvtt57cxThUJrsm7KhczCfUEJk unnamed s	0.003149	0.003149
3K32Wx9sMAYisRdorgMsnobqp4 unnamed service	0.005	
14Mu1PbpgjErAiWaABbG5BS1xM unnamed service	1.555	
1FQKfTmySKI7NgowQzKKPtcQsdsl unnamed service	0.025	

17xV3gGCxGKtidANsoUWHkK5pkt unnamed s	0.016909	0.016909	
36xkNe4UV8E5SXs3T5WhzZUWW unnamed s	0.0005	0.0005	
1JMtXeMRBzQmgoqv84APpKfbCv unnamed service		0.245	
3M6Q1pTJ4tfgVxWtqHPBixnRi3u3 unnamed s	0.071323	0.156323	
1MQRp2bMytR9L4Fzp2jYg7vj5LW unnamed s	0.018464	0.018464	
1P5TNgM4 SolelyTrading.com	scam	0.520046	
179rreqNa DigiFinex.com	exchange	0.128651	
31h8ZQB4 Bitbns.com	exchange	0.433764	
32KWN4PHx98PKLp5k6K7KmUmS unnamed service			0.015
3EJiEBxpSFAzHWmKasYoyGa3Dxh unnamed s	0.628176	0.663176	
1LkbJjWPYekWzCJL7D5v9L2fVXgxl unnamed s	0.002421	0.002421	
1LPhim6HcPMsqyyPvfPtU92u86f\ unnamed service		0.57	
3CQ2MXBt6mFy9W4AbktEWDSY\ unnamed s	0.087444	0.087444	
374pZaX1f6aezioitcvLt8tqe1Cepgc unnamed s	0.010432	0.010432	
3EdgAiXKxgC3AnBiyMLAahhGgUyt unnamed service		0.02	
3NEXay7ro1XGQRUF7Sas4WSUYy unnamed service		0.005	
32zBmdDe Apollon Market	darknet ma	0.035711	
1DmmBgTpDnPkWF8m7V6pZoh3 unnamed service		0.015	
132FexKHT Bexplus.com	exchange	4.037591	
3MckQ9buMqstaMg4j6VmJnmDD unnamed s	0.088678	0.108678	
1PtNH8pRZVTtsjHNqXKYJpSpk4v8l unnamed service		0.005	
16Di4Zcc3f SouthXchange.com	exchange	1.571963	
3DZWq1y6zrotRTUMFqQnBRxrq2 unnamed s	0.002142	0.002142	
bc1qw43dzyceucawfn52hvycomm unnamed s	0.213221	0.238221	
1EHbssL3u Indacoin.com	exchange	0.035	
1EtKhaWW WorldMarkets.com	scam	0.63	
1J9Sr2Kg5x MyCoins.ge	exchange	0.02	
1D97uQU3 Goldux.com	high risk ex	0.002273	
3JsgMqhxy VNDC.io	exchange	0.02	
12ekFeEKyyoS5xkQ8kiijqGPqvfxGl unnamed s	0.000926	0.000926	
38gl9Mig4VpAhBMUubpzYmFFT7 unnamed service		0.01	
3GGsrah7eueM9YsSM1PGCwEsM unnamed s	0.030205	0.050205	
1Knfy3m4f BitPay.com	merchant s	0.892037	0.01
18sZS2uaX Circle.com	exchange		0.005
1FUuflSdni BitCash.cc	high risk exchange	0.02	
3Lfr7UAGr QubitTech.ai	scam	0.755389	
1HNMSmD8A9rtGpc98CXxYvTW4l unnamed service		0.02	
1MmL4q8FTQc1TzmhnUz94n9g52 unnamed s	1.143156	1.533156	
357RBteB6TBonxqngbHFGn8kdLb unnamed s	0.007395	0.007395	
1KnMmnUvYuTWp1vA5Uxsp3v6u unnamed s	0.000228	0.000228	
bc1qcxx84 All world cards shop	fraud shop	0.01	
1G6RzfXghe4dfWa2jhMPU2u3WT unnamed s	0.00121	0.00121	
1NL2HNrYJ Luckygames.io	gambling	0.061505	
32rK5VFc336YTbP7uavkTi9idVT86 unnamed service		0.005	
13WAPtWZMSjV1EDiat3EyVc3ydf unnamed service		0.005	
14rHrNhiRCpiraWsf2G78EYK9TQp unnamed s	0.005115	0.005115	
12dH5WZKLcyG6gxx7oiYgrvcR8JQ unnamed s	0.01523	0.03023	

bc1qxf3t7zs6wz4k8tfaveuzgmr68	unnamed s	0.007444	0.007444	
19St1kMfCPs4kar2F5AJBwV4HMX	unnamed service		0.005	
1BFg5uDnK32BNhPGtrML6ESi3Do	unnamed service		0.26	
13G2uGwTfCF3zv3YfjY4rNq2z4zdc	unnamed s	0.007755	0.007755	
bc1q29mfq9d9t6clyehwc383c25z	unnamed service			0.055
1EDSymLZ47pPEbpUKMBknk26kg	unnamed s	0.059595	0.739595	
1CsBUC7NN9JTXwu1HiZcUcVKrT9	unnamed s	0.015608	0.025608	
1FhFT4MKqtBBETdRpVPT7vp3xxw	unnamed s	0.005446	0.005446	
35xjREkk6yeBM3i4SgYiUb18nhDy	unnamed service			0.015
1FL9S45yNrpNeNdQdnuEdnPjyWR	unnamed service		0.005	
16Euvif3W BTC-e.com	high risk exchange			0.02
1B1Fmw4x1fsbBEPcabey3ccjwHS	unnamed service		0.085	
3KxHhNNgtWHMDJSMGrLspXCuL	unnamed service		0.03	
1LbxmPeJtkpy6LXSM3iLjq1MZdbR	unnamed s	0.002575	0.002575	
19Mebbapq55KBvYgEBQDpZTWi8	unnamed s	0.008539	0.008539	
1CoiNMixq CoinMixer.io	scam	0.003787	0.048787	
3CC6SMbo Wallex.ir	high risk jurisdiction		0.015	
1E4wTKtm CoinOne.co.kr	exchange	0.156204	0.246204	0.005
3CkQA7LpBc6X8UDMmiuuRjxD5g	unnamed s	0.004926	0.004926	
1Musk7suk BTCDay.net	scam	0.001218	0.001218	
1PquEhAbz TheFiniko.com	scam	0.030283	0.340283	
1N6nkeR2Pjzfv6jYF6iK7L3ekXpskc	unnamed s	0.001682	0.001682	
3PFXxLTUNSV85KgunMh5JuM1j7	unnamed s	0.446745	0.446745	
1JV9F3mTVZVP233KAsWzv188Kcv	unnamed s	0.000586	0.000586	
3Gg3aHZxzxWf8x45DLjFCB14yorU	unnamed s	0.004701	0.004701	
14FihQisKYVxu9MkgdoFfveW937	unnamed s	0.003328	0.003328	
1LDuVfyXryheza3X9hingUeu4tiv2	unnamed service		0.02	
1FqzNi9mc MaxiCapitalFundsLtd.c	scam	0.109455	0.109455	
15Ye3aEfTPReuqyvCFzUTDvq4GJE	unnamed s	0.029551	0.029551	
12CrX1wWSvsC6SynHzuPAjEBVoK	unnamed service		0.025	
36W2U9o9XHTjr6EPq9zgF3Yy8ryt	unnamed s	0.001511	0.001511	
36bJXmvHgujHjmuA9aMXwcmc3S	unnamed s	0.001326	0.001326	
12mqm12B4qQhhSLMNAYYDFa6A	unnamed service		0.3	
33qZnV1xS6WZDFVnwpgw9Xw9B	unnamed s	0.002513	0.002513	
1MQRVKRja9jiPsCxHZNk2fgFGRyV	unnamed s	0.0045	0.0045	
3JMjHDTJjt imToken - wBTC	decentralized exchange contract		5.895	0.025
1F8HS2KG85z7FZFDX8ajBV3FvTsd	unnamed s	0.010853	0.010853	
14SjhzyiEDo67cyVf5bLbF35qfD7JF	unnamed s	0.001432	0.001432	
3L3yWuezCGyH3Pi7M4oBw3PH5	unnamed s	0.0018	0.0018	
31h9v1mX4vKVTd1g5aZgvo5cVM	unnamed s	8.377926	8.642926	
37JodXT55Yvg8mfXkf39BF6wcTun	unnamed service		0.005	
3M4tBGZp53oiZrbhagwT1htMS3Z	unnamed s	1.113985	1.403985	0.005
14Muf2WsAik36ZBmTZnvrXkaGU	unnamed s	0.001908	0.001908	
3A54d7DbWkrfxMv1bhDmdr42hp	unnamed s	0.055	0.055	
3FzPhoZFYNAYCACzqtzNiaPtB7z6E	unnamed s	0.16624	0.16624	
32GMPNuf Busha.co	exchange	1.271229	2.201229	0.005
bc1qwycsx Monopoly Market	darknet market	0.0033	0.0183	

1Hufi4FuYi PaxForex.com	exchange	0.247774	0.247774	
3CqmWERb6SFvhC4DJUFTwubz7s	unnamed s	0.001595	0.006595	
1GrbDEZ3u7DypPCijhZf3agTHUFX	unnamed service		0.32	
3H8tVP36JAYxWyrZrTzgennQzYZxLI	unnamed s	0.010553	0.010553	
1LtCYaR4zI Bitvo.com	exchange		0.015	
1FKPL8zPo. pTokens.io	exchange		0.01	
3NTA3rpqGNf4dJBuGya7jKYu8KNI	unnamed service			0.045
3FAfkK8jvHZdPHxMWai7MYZniRy	unnamed service		0.01	
32VXTiHv7gkhg1XJhLVVSpzgWfE9	unnamed s	0.001527	0.001527	
1CNP8ykYr Hugosway.com	exchange	9.703395	10.9084	0.035
1JtPEWSC1 BlockOptions.net	scam	0.192251	0.192251	
3Qq9qiWWPnqPphVA64o2qkVExi	unnamed s	0.00252	0.00252	
33xV7HPW Quidax.com	exchange	1.346849	1.956849	
13W7iTckW3Am9g2uHXgNJZDN	unnamed s	0.000812	0.055812	
35c12qopmbUvuN2s1VG2zxSd9w	unnamed service		0.03	
3BC9vCoDo3vVtDvuDZZgUTWqa5	unnamed s	0.017598	0.017598	
3FZXkHL3uLog9PWxsJnGQhMpPM	unnamed service		0.105	
bc1qlkte4plf8vxnyzjgul76yj5ral40z	unnamed s	0.0003	0.0003	
3M2bxFrnLP7JzmVa4odYpYhPeRP	unnamed s	0.002519	0.002519	
36EgSU8W Minerift.biz	scam	0.089685	0.099685	
1LvxdWHj Cryptonator.com	high risk ex	0.374698	2.244698	
1F39QcL66Zo8hmP8SErG9oR8wJz	unnamed service		0.015	
39RtzoWFy PGIGlobal.trade	scam	0.092631	0.387631	
12R1TJM1ciqjtExBsLbroiF8LJuNmJ	unnamed s	0.00277	0.00277	
3NFnb83F PrimeXBT.com	exchange	17.42963	20.36463	0.21
1Nz4Rq2HE4zD2MVpcmu7Rz5SDc	unnamed s	0.002794	0.552794	
3Bj2jVXAdI Changenov ChangeNov	exchange	15.39742	58.36242	0.107014
3BKriAneGX9M8b4X63oh54g59mi	unnamed s	0.007257	0.007257	
3KkdJKuBPoiF84WG9WL3SSiZfFnf	unnamed s	0.005	0.405	
1LbiKVKAJfk1KRK39bhgNJLwjJrE3f	unnamed s	0.099739	0.099739	
149yRpLsD YieldNodes.com	scam	0.490577	0.775577	
bc1qpzcfysy memo.sv spam advert:other		5.47E-05		5.47E-05
1MLEmSPYY2YfdAENa3hAXCKCWI	unnamed service		0.18	
1AbWusa9aWWCFk8SjcRFGWqT9	unnamed service		0.005	0.005
3AwbyjaE9xCT47jxUXwppNjGHKz	unnamed s	0.001161	0.001161	
1PKEhVKK7otLWkEdEXCZ2uPSeaG	unnamed s	1.482342	1.507342	
bc1qkgguhpps6nkeqap7cz7easkyt	unnamed s	0.003392	0.008392	
1CbPu7RR5TVEbQaQKAtP8BvprN	unnamed s	0.00595	0.00595	
bc1qtphhvzuju44xtvl3delxkd7pl7g	unnamed service			0.01
3L6MFP7Jz EQONEX.com	exchange			0.005
1FvQ4YuuxSfhykGDeojXmvKjYiRkI	unnamed s	0.002548	0.002548	
39B6BLkvD5EL4drskhj7zS8yJZxm4	unnamed s	0.003277	0.003277	
1HEfio1kre Cryptopia.co.nz	exchange			0.005
1DKGRGJXGNLAtTeFb9SNPNHtrkZ	unnamed service		0.005	
32sFBWLdKAFToyNkU11bSu2CmY	unnamed s	0.001199	0.001199	
37LXVoPWwtBF6SiKJ5yFfPg2vVyB	unnamed s	0.0833	0.0833	
3PdGWRBXV2WhXmBa76i1wjdQq	unnamed s	0.026287	0.031287	

1Fx3UUsXç Zebpay.com	exchange	0.222811	1.542811	0.005
1cECeUjaQgzD2jSVvXiS2N2j4mLuñ	unnamed s	0.008313	0.008313	
1LjAK2WCsoPkFP9Qn3kdM22CyQ	unnamed service		0.025	
18Dg1mdw Queen-Casino.com	gambling		0.025	
1PcMwBza6Tb5t8iEUZBfjYVH3c3D	unnamed service		0.115	
bc1qpustlyd5ks2k6k6tms9xrpr327	unnamed s	0.027651	0.027651	
1BFVrpFun Totalcoin.io	hosted wal	0.0441	0.1641	
1KtPiYnBmeJ3CHDCSNseFXLczDiiL	unnamed service		0.005	
1CnWzFrRSteu23AAXkULHt6uXSH	unnamed service		0.005	
1B16khJvB, Blockfills.com - OTC D€	exchange		0.165	0.8
1BLT5HfwPtXAwkGKxYJAMUowac	unnamed s	0.010665	0.010665	
3QipF9vgx6Wn9TtPZhQryASJ5d6ti	unnamed s	0.006648	0.006648	
36nA3m6uL7WcYTT1AekHEMEry5	unnamed s	0.037235	0.412235	
1Ene14BJ4 Whitebit.com	exchange	1.47951	2.78451	
3M4nRwrji GXNitrous.com	exchange		0.09	
19GCPNXz LuxSocks.ru	fraud shop	0.000283	0.065283	
3PTJHLqGf3GZphSka1FfTey9wKMI	unnamed s	0.001	0.006	
3DEi5HHAvcvjaBHQrJKyRoD6nJsh	unnamed s	2.375821	3.330821	0.025
39avPvZpHZLoDXQt7pLm3zAM9z\	unnamed service		0.025	
17VUBbZRI Joker's Stash Market	fraud shop	0.010772	0.095772	
3JSogEzJbw BitGalaxy.net	exchange		0.02	
34dxYiVy22Xj1UXaS4tVVGwNyM	unnamed s	0.021585	0.021585	
1GEz8o8an Energycontrol.org	other	0.069209	0.069209	
157EDTdF€ Kraken.com	exchange	227.1991	315.1441	21.63
3Qx5LN3LsmtiKAM1i83ZZ7LibSv4f	unnamed s	2.861422	2.921422	
3AwRasMAwKFUawY3jroNt5c336'	unnamed service		0.01	
1Nb5G2S6tisQ3nq6ZY7K13oBWhJ	unnamed s	0.00436	0.00436	
3BysbwiUp9LqvMAJy6bHeVqTwm	unnamed s	0.002283	0.007283	0.16
1Jz9nwPL2A3FWLEW9Njv6cXyVB†	unnamed s	0.003345	0.003345	
1MnWNniHdgMgQkUzn2NMbQav	unnamed service			0.05
17aZ7HervotJ55JnAVFr2QGdVVVv	unnamed s	0.009508	0.009508	
3JRBuATZFGXBx4joyM1BfM2JmV†	unnamed s	0.001752	0.001752	
3LKS8S8jU6XzJhCXH64qCz54Sm43	unnamed s	0.060473	0.060473	
395qv1nSk9jzDboM4CiS52XSTCzy.	unnamed s	0.603752	0.608752	
3Nurm7uuo2dRaH83kHxbo6CTLXI	unnamed service			0.965
1FcmhcwpbJc41qLoVNkUCMMKw	unnamed s	0.020658	0.020658	
19tuQvtPwpxGEptjANeKjXDyC5H	unnamed service		0.025	
38D8WTQwUafHWdr4E5fgK9gPxc	unnamed s	0.008785	0.008785	
12H28MfCC4JZNxTfVRJLDgVw4yK	unnamed s	0.046045	0.066045	
3Ph2Hsajb2mCDEmA82TRGpPFiuf	unnamed service		0.015	
3KTKzwucfbbkf3AkmpAMYDgVjPY	unnamed s	0.044943	0.044943	
1PaYKX7MCXtQzwNi4Q819UjWRE	unnamed service		0.095	
38tHykRirK19RjR5hK4hqYXSftFSJV	unnamed service		0.08	
1GfZdZxEaCgwwW3iQG9dLkcBVF€	unnamed s	0.002096	0.002096	
1278okLec' AAX.com	exchange		0.34	
17F9EG6sck4Wv6Ess8KpXhC3Ek7€	unnamed s	0.022852	0.022852	
15SdoFCiw Poolin.com	mining poc	0.08453	0.08953	2.29

3CuwMAM CoinZoom.com	exchange	0.598399	0.743399	8.02
162tEx4PmuLLKhtEdKAW6v13p7X	unnamed service		0.015	
1HqGi8e2b OctaFX.com	exchange		0.045	
1Gymff1Z5 IntrexInvestment.com	scam	0.172299	0.172299	
37Sjr1TNFQJKvfXLtbCLRy57cwQH	unnamed s	0.00075	0.00075	
bc1qdjwlk BlueWallet.io	hosted wal	0.184733	0.289733	
1PbvbcRv4WxCFFYSrXNteNqMfig	unnamed s	0.027273	0.027273	
3MZihDBFmagp7ijuc1oVswWqRD	unnamed service		0.21	
16Dd4Npu MrGreen.ws	fraud shop		0.02	
1Q88eMvg Easydeals	fraud shop		0.005	
1K2b8gBg5 Indodax.com	exchange	0.145086	3.050086	0.26
1P6pvnhedXNiAosjjzuhXG8LDAXEI	unnamed service		0.065	
1NbphwKcUowpVBY2YCqH2eCPjE	unnamed s	0.010174	0.010174	
1E3Qt4xaD SecuredCryptoTraders	scam	0.006781	0.006781	
bc1q4zkrmq92ksrs5vd82mcehgcp	unnamed s	0.010797	0.010797	
1123mRrEl Bankomat.cc	fraud shop		0.105	
bc1qq69gpyzsptx94mfx858fklzedt	unnamed s	0.001727	0.016727	
3EM7hJRRB4iGHH2o9B4VmZgN2C	unnamed s	0.0033	0.0033	
bc1qpf9rar48jfgvqy0a534klmkgr5	unnamed service		0.01	
1Mipj6s5hXtVpsBPBxmU16CyEwF	unnamed service		0.145	
13hLyfRHg XMR.to	high risk exchange			0.005
1CDVnFDF Any.cash	high risk ex	0.011548	0.421548	
3LWLRfx7igjuZi7m6Zh9nKtbsLqjb	unnamed service		0.02	
1FYQ7ymZQyHF6NJ54yZkv8KzTuY	unnamed service		0.01	
bc1qt0ncf0 MDL3.net	scam	0.01	0.01	
1cCtcDjYirVXGnUL8dvFFxewT4mfl	unnamed s	0.00563	0.00563	
1ETm2FTcqpSmRZXGef3UHsLfBkU	unnamed s	0.002187	0.002187	
1B3vq3aYvwwTrWj3Uis7FsuYVa1P	unnamed s	0.007832	0.012832	
1MhzHHhss7a8qmGaRfKjBUKe121	unnamed service		0.005	
19QaoHxdl incognito.org	p2p exchange		0.95	
3A8iW5ME7pa3bi1pxbL7qvKkWjh	unnamed s	0.022386	0.027386	
1Apoidqz5wQqMDszY1f6TEu96ha	unnamed service		0.075	
33QpaTQNRR2yA4KxdNrtsyMt31	unnamed s	0.001231	0.001231	
1Ed4bFVaMfD5w79Ef5Yiz7yyq4Q	unnamed service		0.005	
124YFf57sxdW6CfkVC1yG6k1cTro	unnamed service		0.01	
1DsdTFdDKZXqkPgAExU71Dt4tNH	unnamed service		0.08	
1C1rFhgBnVRuwYy9QopcavKrmZc	unnamed s	0.000732	0.000732	
35Ca5e2sxb1Pw3MbeRiC288763h	unnamed s	0.320846	0.410846	
13Dy3vbF6MaK2ahUNhR2oYEgSH	unnamed s	0.000971	0.000971	
1Pdx3X383VwxayiFvNcYjHkxWvJV	unnamed s	0.023834	0.023834	
39k8YhfbQ LMAX Digital	exchange		0.045	0.205
1FAoDtbFC BrasilBitcoin.com.br	exchange		0.145	
3LNibQtvwrja2bGvZ8qCgtCmeqSjr	unnamed service		0.025	
3KwP1Rfqx CryptoBrowser.site	other	0.017457	0.017457	
3GaRfjis5C AMIGOS Shop	darknet market		0.08	
15iksRMot Bitvest.io	gambling		0.01	
3P3f4HPPHwF4haeGbrHuXSi74f6L	unnamed s	1.128278	1.278278	

3B6T5vFJcKxE1FVZ6bxkvPzdZ84P7	unnamed service	0.035	
1CuoeTJYuuYDix6zXqPcAgjTxksTsJ	unnamed service	0.005	
3Ccen1tus/	CoinFLEX.com exchange		0.375
32hjziv4SZvTBXotaSwpWTtMuqxC	unnamed s	0.029109	0.049109
bc1qr7rvfn7chapHg4q95hsz9tsqpE	unnamed s	0.027953	0.037953
3PYT22usYsbyPehZf9zBpUKVVzLm	unnamed service	0.13	
1frsHKVKyx9KA8ja3P3N1GTSPqS8	unnamed service		4.18
bc1q9hfrthe0wgav80qmywx9tn5c	unnamed service	0.01	
bc1qp36fs205hvt94nx9sxsjfsx0i	unnamed s	0.0011	0.0011
13pULb5BfB3cpgUGE4nBFrj5DbE	unnamed s	0.537726	1.702726
1EGZhVvL1	Viva-Minerva.com scam	1.380528	1.500528
bc1q3zkfkx3kn4njs3vsjte6nlpmp3	unnamed service	0.03	
3AtUnMeh	Hubi.com exchange	0.008449	0.008449
33uy5rdfkI	Satang.pro exchange		0.025
366dMTppFHMm6G7fMrsUvFufLF	unnamed s	0.001148	0.001148
37CVDJixrA6jqYVax4XQRb9Hn4EH	unnamed s	0.028219	0.033219
1E5ewaCvctN2nDLGbVvfeE3BpcjT	unnamed service	0.045	
1BGcPW9q	BitMaxCoins.com scam	0.01311	0.04811
bc1qqyefvant90hw8aeu3j7zgky6fI	unnamed s	0.025482	0.025482
3Mftxy9Lal	WOLF.bet gambling	0.002116	0.002116
bc1qfsx63snj9gnklklyzdt5ykssmqT	unnamed s	0.011362	0.011362
3Ppa4vkDc	Unknown - OTC relater exchange		0.01
1E7v1Bw5i	NimbusPlatform.io scam	0.0317	0.0317
13DdfKxdE	Korbit.co.kr exchange	0.451	0.456
3AbBpdoQnLBvMZHgSZGgCe5mKE	unnamed s	0.011488	0.046488
1EBjLQE6Fvi1LfKHx9rhmn7pDkxTz	unnamed service	0.075	
13FyLXYQJw8GuGthGpBE11Ety6c	unnamed s	0.037586	0.037586
14TCgpA97aJWPhVYcnQSxM11ejC	unnamed service	0.07	
1GKh6Vm6	OGS-Investment.com scam	0.005	
192PMU9vDnrt8gAGYrvP7HhkugE	unnamed s	0.005905	0.005905
1HjdpRr4ziF7kGX3pmr3JAVPPjJ8R	unnamed s	0.006	0.006
14gbmBo3	Purse.io merchant s	0.016684	0.036684
1CUneudHPc9A4zXGxBTcUGzHh2I	unnamed s	0.00051	0.00051
3PBZiYKBwmYUFuepT293YEpzHQI	unnamed s	0.170587	0.170587
1P4rxKTgPQQ4moofgHfpNrxKeRE	unnamed s	0.012909	0.012909
14Dh4Z8bipBzAwPPdximrEbPwqk	unnamed service	0.005	
14TGQ7hApbtTDtppBQFuuymlVx	unnamed service	1.995	
13PhzoK8n	Coincheck.com exchange	0.075	0.01
1GctiRyoMNBEDgXseCiKTidwsVar	unnamed service	0.005	
32KSWzNTFvrkzhjrtDUKEWDMoC	unnamed s	0.131267	0.131267
1PRZ2cDYe	Bitsler.com gambling	0.29158	0.31158
16cXuX54V	Ripio.com exchange	0.000176	0.035176
1Q3T61RZf	NitrogenSports.eu gambling	17.30022	21.83522
1E9Z9iv4Ldi7uA669fNSH28BEjwjBi	unnamed service	0.025	0.025
1E8BoJDHr	SlilPP Market fraud shop	0.008704	0.083704
1CsFswxabeBbpobEokcCig9YFFUj	unnamed service	0.42	
18ZiAQUgr	ZB.com exchange	0.086719	1.166719

1LrfeSBhAe Coin-Farm.net	scam	0.001456	0.001456
bc1qug5ga ThorChain	exchange		1.665
1jXHqezHGGfhoqCXM8PLJG17XQf	unnamed s	0.002603	0.002603
1JEWuNbRuJ4HiQphPgDye7gsW5j	unnamed s	0.004408	0.004408
1FUmu6LsAtDwnRACfqQi3bGibZs	unnamed service		0.015
112YtkiJFVNDN4Nuo3yy2WxqX9w	unnamed s	0.018251	0.018251
35MLBMoJBKeFFgHAVDccPE2CtKf	unnamed s	0.002028	0.002028
18SFq6p4bmzbhbZT6GSQa12pd9f	unnamed service		0.01
3EfsyrofEq Bitvavo.com	exchange	0.005	0.045
1ntb2HjiFB Unknown - OTC relate	exchange		0.01
37SqMcQNYvyUVXjCnTKisSActKAs	unnamed s	0.000433	0.000433
1AFyHbMkD3khThcyWnodAPHkd	unnamed s	0.002681	0.002681
1BiyKHB2H EstamaFX.com	scam		0.015
3KmQnjVV1REi9hAj4taGKxkwNJC	unnamed s	0.095514	0.105514
15A2oB7UgytiLR9jpZLBP2fUome8	unnamed s	0.018674	0.018674
3H6mybEiFMn74UjULmmvYtRLm	unnamed service		0.01
1LuXmdSw MtGox.com	exchange		0.125
12L7TGYHppGAftp8xHCP8s8ZB7r3	unnamed s	0.014758	0.064758
33XCRUnzPwaeDqfCkQYDRhCJkQ	unnamed service		0.035
1NALG1vZj BTCStep.net	scam	0.02	0.02
3Qqr6Z3NiL4ySqfF69hwJVqBNAE	unnamed service		0.01
bc1qtwedf4vdm4w7frt732jwjmy4	unnamed s	0.043668	0.043668
1JDMvSPsvnEQnxtXZg1ko8sFKLdw	unnamed service		0.005
1NrVRvD19Bfs3DtbA39fNFxANSsc	unnamed service		0.755
1D6aSF1oSyedYpCcy1ERuMJsXkfd	unnamed service		0.005
1329yFzoVQMvkn8ie5Sx2f5LUYe	unnamed s	0.0016	0.0016
3DUHDZqTbF7eqKwvqDSDVd6J5r	unnamed service		0.02
1NsDwpSTK7zwh8V2GK3GwSfAEv	unnamed s	0.001925	0.001925
3DD1hKortQhjbLtZvTqBtUA1e1UP	unnamed s	0.008726	0.008726
bc1qr2x6t7q29pu3fht24xn3qcgp	unnamed s	0.018172	0.018172
3BdM8T1qfDdYttehrh27mWgXhii	unnamed s	0.001484	0.001484
bc1q9f09wlcsh9juf25vycpsz8m5nr	unnamed s	0.004461	0.004461
3GSzUZS7thwz1w3Y8S2eJm6KLHv	unnamed service		0.015
38mqnRQLtWGMGwXJHMT8saQ	unnamed s	0.0095	0.0095
1J9Jd6L5s2g4Ywmi2R81eL3TH5oL	unnamed s	0.037295	0.037295
1F5bfN9hoydgAYBdujKqNE2krL7Y	unnamed s	0.001697	0.001697
bc1quxr4qd3htsmwecmfdesd3p0f	unnamed s	0.0005	0.0005
34uDfcUrt9ZNh7EjUSEFZUDgMes	unnamed service		0.01
18cPvKDFrYcLpH55zZCp9CDKcJD9	unnamed s	0.001581	0.001581
18rEawauRMheC6qi8hyKGN2WpE	unnamed service		0.02
3AzdigCcmvRd8vvdg6j5DLWR6Xg	unnamed service		0.005
16PXVSPe1ep9CoPuaqsegcjWc9Vl	unnamed s	0.0041	0.0091
3DcDg4r7WxNmBFX9Nvi1UevWul	unnamed s	0.000599	0.000599
38h5JkU7wB8GseKnE5nQGjWEzC	unnamed s	0.004829	0.009829
3Li6tRmjheTSdJM7W9yteYXQqXEj	unnamed s	0.000449	0.000449
35aDdzQcsCwZLRot1KPYq9q4Cin	unnamed service		0.01
bc1qx05hzzz5qt7u8ggj60c70dtd9	unnamed s	0.001083	0.001083

13TvzEQLFZN6g2oroGfn1GMqvYb unnamed s	0.00137	0.00137	
3BuTfxWdVzVBCkbB8WuwagKdfh unnamed service		0.01	
1CVb4voA2 BitZ.ai exchange	0.011436	0.026436	
1AYTZLhPN GiftGemini Giveaway i scam		0.145	
38ea7dV6aJjGFuwgneFcRfjd1y3na unnamed service		0.03	
3EaPZTdBL LVL.co exchange	2.864768	2.864768	
1NCYeoBskPs2Sq4Q7B5dMdaJ8D\ unnamed service		0.2	
17dC3EsSH BitSeven.com exchange		12.595	
1958oM2r5dzspeqhDRJDbrNq2Stf unnamed s	0.008571	0.008571	
1LiLwUZFS1p9oxgXxavwiDutSEx31 unnamed service		0.09	
141QU5PC Thodex.com exchange		0.005	
1DVcJBruiAkGmRFTfrLjv9fAHkXyrl unnamed service		0.055	
1BrBGvYdc CoinCola.com exchange	5.057872	7.897872	
3872fg3XJeA5HMfzp8FCEaNVExiX unnamed service			0.005
1JeoJvYpvyus7oDPu9ByG83i2tfpD unnamed s	0.004687	0.069687	
35NV1tVYRyHQFwP7drtbW285hz' unnamed s	0.020314	0.020314	
19Xenm4suCmcuSU2E2nb2CjRiuu unnamed s	0.013058	0.013058	
1LgfGQyugbmtbTabuGMPnWV1H unnamed service		0.005	
1FVVQGSszBQzqQseCZNbaf5FrVZl unnamed s	0.003508	0.013508	
39QDF6SGn9CZm6cGLC6h4hLH2g unnamed service		0.01	
3AdRGgNotwRYXaQTzWD7r82Jvjy unnamed s	0.008747	0.008747	
1AvfdKH955gpf7wNxQcHnaxosCV unnamed s	0.005143	0.010143	
3J3SZpnoiktqw46WotHwhkp3Zqe: unnamed service		0.03	
3K9sS5WN Baksman.org high risk exchange		0.03	
1CrAG5r4e CoinTiger.com exchange	0.296623	0.301623	
1GhwjLVSNheXHW83Cbbbg7sQeE unnamed service		0.015	
12LF1bqBBE57icLXQ8vu1f5juV4m unnamed service		0.015	
3Mcs6vfvtl SamouraiWallet.com f mixing		0.015	
16zHkkns5LxHmQFTMvi7Qgwy3p\ unnamed service		0.55	
1HYHDR21CPPHeDxcPMBs44R5wu unnamed s	0.003091	0.003091	
1Bu5qshWAWXbknaLzDRjipL2nWj unnamed s	0.00299	0.00299	
bc1q92g35s78fynknea87w5trwye unnamed service		0.015	0.055
343FouKENNGWVvk6ckVTqJmaaPk unnamed service			0.015
3DCa2uWg Coins.co.th exchange	0.540021	1.035021	
14UT8AWsiLZWCB818F5HaZetUaj unnamed service		0.01	
3K4sHSwHiheKY4GSCv12pNCAei6: unnamed service		0.06	
125LHvA4PQVGbNHUvVXw44ws9 unnamed s	0.011105	0.011105	
34puxiy1oERoQcLSfNZf4Wmamqk unnamed s	0.106255	0.136255	
19gcFrE83NQ992HpxTxWdskn5oA unnamed s	0.007849	0.007849	
bc1q99czu: Reported as stolen fun stolen funds		0.01	
35EsZZtCtXDTbfqChdf8C7AsCQzdk unnamed service			0.005
1Po7JdJAv6vNNENE6uaupniaUqYf unnamed s	0.04995	0.06495	
16nTegE27cn8Kc5SQMycCunTgTk unnamed s	0.063417	0.063417	
17jijDFF4Jp BitcoinWallet.com hosted wal	0.867837	0.877837	
bc1q0cqe7frxuzpyyvwjr607cjpwwc unnamed s	0.393623	0.718623	
3DTjnAGuLubCrbhNTTae9cgsXcSH unnamed service		0.01	
1HLcdRT6UumKTFNJXVAPK25YGtc unnamed s	0.001652	0.001652	

1PAJP2yzRl Wazirx.com	exchange	0.775897	2.420897	
38hZrMiph Multival.is	high risk exchange		0.03	
3LzP6FtpGaVr2AQQYQ6bBc98yJD	unnamed service		0.005	
1DF2Y8tP13Y9P1CU62wunHYfE5C	unnamed service		0.01	
1sXkudtuHG8JVxV3StF5Sunmz2tq	unnamed s	0.001619	0.001619	
bc1qmvx526ylawzyfnpr0rc4sq3h5	unnamed s	0.096216	0.191216	
bc1q2m4klu9hjyzcz5y8vtwjpeyj0h	unnamed service		0.015	
15uLSCu1bB6N62e6Xakk1TiLkqKT	unnamed s	0.019536	0.149536	
1D4aFFdFLS354rQ7MJjADhLMKyq	unnamed s	0.007171	0.007171	
1FzkLyDNBoeJbHv9vffSw5bm72A	unnamed service		0.255	
31q1q174LGgJK2QyMWELmGXuR	unnamed service		0.01	
1AaY59NahrMAdBGyyuKcnyYnjHn	unnamed s	0.004741	0.004741	
324j2QbC5WZNN6eTGecdV5bKbjf	unnamed s	0.000692	0.000692	
3FHGpyohoeiXBs61sZjGhEopGDxA	unnamed service		0.015	
164d9x4p9yX8sP1WparCFxBwnhN	unnamed service		0.15	
3GKTRi1xAaVHT1562kjj7JBNTWaY	unnamed s	0.046499	0.051499	
1HUvMpbbiCEWeMNMFAVpKoAv	unnamed service		0.17	
14f5DsXVC MINE.exchange	high risk exchange		0.035	
3A3RsLwG2AWDcJxZcx3KcUCUYP	unnamed s	0.028083	0.028083	
bc1q8p4vmvg56e2q2ntpchgd2egc	unnamed s	0.006008	0.006008	
36sH6xiMkUAqBB5pjWUSCM8dtE	unnamed service		0.075	
1KGPbQZL6VynNCZ8Ww19euHyo	unnamed service		0.01	
1AoJNaWXs6Tjv2WeZsCCd3ajMa3	unnamed service		0.045	
bc1qxjmm8fvdxcqur8r6m5j73g7p	unnamed s	0.000896	0.000896	
31khhay5BmzwLSF2jmiwLJkqmSh	unnamed service		0.03	
17tkmccARrLjkJAjTcGPSzcQ1RLHy	unnamed service		0.7	
13LAVA8DHR23GhZX4e4bqZkWH	unnamed s	0.007757	0.007757	
3CAaWUmXgw1ammiFEP7NGtZro	unnamed s	0.018472	0.018472	
1Q2vBRTzL Cryptopay.me	merchant services		0.39	0.01
1LixFYFjEyrbrdyDqFwqtsQnjFGyqz	unnamed s	0.001846	0.001846	
3K96HHBxSyzGhbYoYvemcZRMub	unnamed s	0.008679	0.008679	
11EqVoGKdB9bzfCLWwb7SSQVYja	unnamed s	0.004222	0.004222	
3CUfuDZkR8uC5hpMQs3dRs8J4Ax	unnamed s	0.001124	0.001124	
38jADPP8c5N5YTKx2wUMh8M1Pi	unnamed s	0.000739	0.000739	
3Gw1nBFBQGzznco6aqabcPSpe4p	unnamed service		0.01	
1CSq5C4HK9r4wMxP2AaiWNNXLE	unnamed s	0.009039	0.009039	
1BcQC5wrdD8JZdEC4DrLxVcBph6	unnamed s	0.003625	0.003625	
14UfD6pjnMH7APduFLKFtTdFmaV	unnamed service		0.385	
bc1q8sea3ekrmu4nu893zafyrecfr	unnamed s	0.000867	0.000867	
1LnxBuv5AoBwws9JQBDGqdXcWf	unnamed service		0.07	
1Ea7zHpBPUT2H9CVXyX5ae67u8E	unnamed s	0.006773	0.006773	
1DF7y49Jr Mercatox.com	exchange	2.160646	2.205646	
33bw5VKGiQKF4oLZ7GojnGiWWB	unnamed s	0.01106	0.01106	
3Bc2TqaMvBwgTJLDLYjUtsFqRQ4I	unnamed s	0.002922	0.002922	
1BBhCGPQ Changelly.com	exchange	0.081969	0.841969	
1KjZBQ93a Gemini.com	exchange	155.7452	309.9902	111.095
3B2doVSmsPMrcaiRgrpfJwEGX4JC	unnamed s	0.012735	0.012735	

1dMMMyquhBaHHhnYPaCTiyhi8khc unnamed s	0.003592	0.003592	
1BoNpqLcQbn85m6ZNZjxovw7Lx unnamed service		0.005	
1Ha3dS6w: Bitso.com exchange	1.794082	4.674082	0.005
1Kcr99fKKU7Wd2L3XQL1bweugW unnamed service		0.065	
17XmGM8dRosxYHFAC75FEP5Tfq unnamed s	0.002153	0.002153	
3CUWuPd(Benumb Shop fraud shop		0.035	
1DKfR4npVaxZqJ961WpT1epmwR unnamed s	0.020241	0.020241	
18uB3aM1bUNgatHHyLTTzMeCo unnamed s	0.000864	0.000864	
3F5ntKAcfcjYATEzneRA82AvFm5w unnamed s	0.003913	0.003913	
3PUFyFj23RTUt4Wq9hJD48KR0AF unnamed s	0.001392	0.001392	
16jHJMr7WpKhNd8pdWr2MZ1pq unnamed s	0.005648	0.005648	
15vwJpHJX XChange.cash high risk exchange		0.005	
1XtfE15BnvtUScRLkbTvNFF8QKfH unnamed s	0.028516	0.028516	
1EzsmGzvSjWbqAq2RG66j9AwXN: unnamed s	0.001235	0.001235	
15eyMeLG Dcoin.com exchange	0.27791	0.27791	
37xoqtqmbTfQKKRhmWTfgUYh1i unnamed s	0.006037	0.006037	
1FbT8qydDBCtRWdj2g7oYzGUs19 unnamed s	0.001357	0.001357	
1J4ph5FLex UnitEx.one exchange	0.282894	0.282894	
1QGnvUa6DRqrofDsbos6ytANEmc unnamed s	0.002577	0.002577	
1BK79K8R7mqMYowAB9BrPFBG5 unnamed s	0.010329	0.010329	
1MjECsYrdRWVvzD74316jzEHA8 unnamed service		0.005	
33z6oGnxNE2Y6B4cUdnrcTWd1Js unnamed service		0.005	
3HsAvCQuPLPt9hpRnDUeyszsMxS unnamed s	0.001562	0.056562	
36YS2yKrV EurekaX.io scam		0.005	
33gDXMpnhrTL5kiuFZZhq1E13Ms unnamed s	0.029907	0.029907	
1KAxxNZTuHDD12CvBMWP9HkxL unnamed s	0.005014	0.005014	
3GbbdVuHSn3xdT6f4GcAdwveNB: unnamed s	0.004033	0.004033	
15HNUoVES8HaVteMnejgejJHNuR unnamed s	0.02471	0.02971	
bc1qpupge SamouraiWallet.com - mixing		0.01	
1M9rpQ2g GoUrl.io high risk ex	1.400457	1.685457	
1PTC5ewvCY76AysN961vCe1ftq8c unnamed s	0.429182	0.429182	
13D6QVUDRbX5vmmXcmbMViM unnamed service		0.025	
bc1qv6scxvy6p5v58ukrnrpxjyjt0l unnamed service		0.07	
17a9fnAsR9fbdGfGuGd32AKkqZVB unnamed service			0.005
1MLy9srz56qRDxxsiTYmxJ6CKYfL unnamed s	0.000281	0.000281	
15opG1AXbpJcyJ7GVi4yNy6FZki7f unnamed s	0.015786	0.015786	
bc1qapqnx6gcevs8v4ess4djf5466j unnamed service		0.005	
32HoFfZbSAw9jDhT989F1sVhPyJl unnamed s	0.01676	0.02176	
3JysdboHfxJNJAyA51wkqsK9QNnS unnamed service		0.02	
3AYgpr6JB redeem.com p2p exchar	0.220948	0.220948	
3DDmbqTJst3nkEH52KIDDB4K3SA unnamed s	0.009988	0.009988	
3NDFmk6VLRq5Z4Qxt444qAAeL4T unnamed s	0.034107	0.054107	
16yvmY8LA1RXhWVfmYLSRyT6BD unnamed service		0.035	
3E7YbpXu Chatex.com high risk ex	0.009663	0.049663	
19FXJx57tx1yNoNHq8eMiqxndQC unnamed service		0.05	
1MmV7Xxj BKEX.com exchange	0.087941	0.117941	
1HYCSQdbq8YZroLB5fbTnAZFH6d: unnamed s	0.001767	0.001767	

15PugmmLmdGnerz4Xwh7gbwPzi unnamed service	0.015	
15JHo7ezu NYDIG.com exchange	0.055	14.93
18SxtstZnjCnRBVnGMK8MEhnAZb unnamed s	0.001294	0.001294
3NFxWYCQJNCybvMUhdeutyjW6t unnamed service	0.005	
1MpEYiDDQbganpuFGommYxb5ty unnamed s	0.031507	0.031507
37ZzPpS7ewammyMsG2cFHUWL unnamed s	0.020403	0.020403
1A1sj3sDPWDxtt2saBdvKHuhB9vF unnamed service	0.32	
3FamvQdaUxHBUUbcSufjKAGAhC unnamed s	0.002268	0.002268
1PkkdNAQ6z11ez6iD2vbtv9jph8D unnamed service	0.035	
3Abw48AY P2PB2B.io exchange	0.343725	0.393725
1EyUhw3GwsRGATABpP2DBZRqh' unnamed service	0.065	
1F4Umi6h7 FXInvestmentsLimited.scam	0.17	
13pYnRCihur8JB5tSmtCz37nQ4n6 unnamed s	0.003307	0.003307
bc1qesg5fqu6rhj4umk9hazljaa42 unnamed s	0.016043	0.016043
1NYcKuuJVTrMAQks3tjgJLePvjbes unnamed s	0.011416	0.056416
bc1q8n3q7r6rs07szetkmzyyX0xp9 unnamed s	0.001167	0.001167
13PaVyCKn3GknzNXUmHar3HUTP unnamed s	0.006038	0.006038
1Ayz1YQTjexp8ouiCxBmQ9PNAG6 unnamed service	0.005	
15WgajYQbMFENQQm1dpXv2LW: unnamed s	0.014405	0.014405
14VbVafSR Iconomi.com exchange	0.005011	0.005011
3DHY26eTz6AMmJmdbuawzc7egL unnamed s	0.003597	0.003597
1LwV8T7Q BitSeller.com.br exchange		0.035
37KWmcVfw8qcbmq6pLYKaC8eU unnamed service	0.27	
36qbZbZ2N BitMix.biz mixing	0.041276	0.136276
3Ev6xoY3FpXWzeL4FHmbjStTJkFb unnamed s	0.003335	0.003335
1ByMKvJhYgdANSriHcbJ8j9pj4wdc unnamed service	0.095	
1PGd2LvCrmXLbfcLR25FdrowxUR unnamed s	0.006097	0.006097
3J9MjMz5k SparrowExchange.com exchange		0.01
1LC5iDQTu2RSbd9HgCw6Eo3puHr unnamed s	0.000534	0.000534
17kQY6j4TjBo11qiziPJ2vKYYHuVC: unnamed s	0.000843	0.000843
1P8RpGV7WYHiBLZH9nhxeZkLAG unnamed service	0.185	
1Cmkq5ZqI 365Cash.co high risk exchange	0.03	
1HvjUWDYMDU1X8ekojQUJssxkti unnamed s	0.00588	0.00588
3466VynRfGWJNhqoxCrG7RXm6rr unnamed s	0.005528	0.005528
3H8QATgbGy6V7nVuLq655f9JzM unnamed s	0.388366	0.388366
3N9YydsiGyRwPD24RfDzUEyd3qH unnamed service	0.015	
3B15Y4MPvXZZDnKW4bBecTSED unnamed service	0.01	
1DqDqJTB Huobi.co.kr exchange	0.015	
bc1qdnqwj9yvq4wg4vkrc27c36za unnamed service	0.005	
18i4hFd2gI SofTradeAI.com scam	0.01	
12nnBHpxgryGatWzbkeUGGmMZ' unnamed service	0.01	
3A3ZTN5pDizRZ57aour1Mmk4FjJ unnamed s	0.026222	0.026222
3JU4FDpKAoyLH8D6jUmuhM8Y1K unnamed service		0.01
12LKg79Jkc Hodlnaut.com other	30.98483	31.78983
bc1qzqye8dsfq688lzkjrlqlvkdtey5 unnamed s	0.008031	0.008031
1A87YAygoKcwnTW4h5bp4Lh5Eq unnamed s	4.190968	4.390968
1583MDNk SharedCoin mixing		0.01

1MkF9SNp Unicc	fraud shop	0.145763	1.120763	
bc1q7wlf2ughu9sfc0s6drmruezvli	unnamed s	0.001559	0.001559	
38DPYmsa' MoonBit.co.in	other	0.01014	0.01014	
3BRcC5jBbocgMefRGGNmPABi9R\	unnamed service			0.02
1Fpw5pdDRsQfhnKtSxnmBwq8Un	unnamed s	0.109839	0.109839	
1LUUEYsHMEg8JvzJH251tVyRMLw	unnamed service		0.005	
13Mbc1db3SKvrKNj5BY7mKfd7vn	unnamed service		0.025	
31vDoGasF LoanTech.top	scam	0.025733	0.025733	
3MKN5LeH BlockFi.com	other	731.833	804.933	0.285
bc1ql6u33mhlphh6dgs8h7yxexwq	unnamed service			0.015
34xtN7A4opZrfv6nJXoA456iwzmrl	unnamed service		0.005	
3HkuJftKFg3pX91Lj4LhGXQHbXrN\	unnamed s	0.00381	0.00381	
1DSuPnFWPPKRPBSLK4gByhRPAiE	unnamed s	0.004082	0.004082	
3NQKVhtdtCkDEnvXRkh9C1sP5vl	unnamed s	0.100796	0.105796	
16fnGyWd: Bustabit.com	gambling	0.081324	0.136324	
1NsHkqN5B9moZKyW4fGonPCqjC	unnamed s	0.001954	0.001954	
3Mmb3oo\ BitGo.com	hosted wal	80.13458	88.88958	
bc1qfelyrhfs0wy4un5pc3jjfxh6ndt	unnamed s	0.048	0.048	
34T17offw6vUXJNZpEEkBsueYB8y	unnamed s	0.004325	0.004325	
bc1qua22vyg0k9mfdas7ta96mfk8	unnamed s	0.050179	0.090179	
16G9EaR2RFBVRM6pBrEv2SKmoj\	unnamed s	0.010816	0.010816	
18X7JgctubT83RBU4o6fKMNKU9g	unnamed s	0.002259	0.002259	
3NNCq6DH PhenixFXPro.com	scam	0.237859	1.112859	
159EEUiedzih7Uur1f5GBCmrjaAC\	unnamed service		0.015	
bc1qtz65n63280s97tl8jvyr3edj73\	unnamed service		0.005	
399CmEWbbdAgxkaiLAasrNEAan7	unnamed service			0.01
1H4yEmGVE4SffiXcm2Y1c6obwpg	unnamed s	0.001192	0.001192	
1MQKX68y Cumberland.io	exchange	0.108488	0.758488	45.5
19yTZ9E7C AmericanCrypto.com	atm	0.091343	6.096343	
13AyBJMyUzxm6FEBihM34YYAX8\	unnamed s	0.003685	0.003685	
38wChBzgKEZsngXukpDjLA2fubbe	unnamed s	0.035594	0.060594	
3FSYFUHL4yTMAwRrk24vp75Ebs	unnamed service			0.01
1EVCVf97v AlphaCryptoMiners.co	scam	0.005472	0.005472	
bc1q8gffqsv0cfysgwp88yfrkgnh2y	unnamed s	0.001867	0.001867	
3QaRFHyrk LocalcoinATM.com	atm		0.295	
3AEYyQ1jvQR1JFKTjctNapWU2jXg	unnamed s	0.199898	0.204898	
33a8xqHz8fQypuEGDs8eokyoqcel	unnamed s	0.003826	0.003826	
37DnnpXebGJC72bAfAXqZZaeXBA	unnamed s	0.538592	0.598592	
bc1q2605l02qmjdxxvk2mx33q9ks	unnamed s	0.038098	0.108098	
1JvMhYCDgYiktFDqL1sxxwqfjkeQq>	unnamed service		0.015	
3AN6ohwQxuiGYW6ngF3yUHFCDI	unnamed service		0.005	
1AzVJz2fg1id6cwzhaEiRePTtKrnrx\	unnamed s	0.014476	0.014476	
1H1Hsn1EQhRqeQU8A9zEF4Qu\	unnamed service		0.425	
135cH5Frc55pJu9RFQj79vBPdjAS1	unnamed service		0.04	
1H2U97kr: BitBonus.top	scam	0.005	0.005	
19omSnSYQgX4UVAd6WAanteR3r	unnamed service		0.615	
3A3RgxWq BTCTurk.com	exchange	1.320529	1.860529	0.025

3777wEHpEzLFVCyV16EnoZYyao8.unnamed service	0.005	0.065
1Ba7moKd EnvyCorporation.com scam	0.005	
1AZtbQDxWATKDMnTQo8Xd62EC unnamed service	0.01	
1QHmqSYp8Dce4wsFiNhqmQKRJ/ unnamed s	0.000911	0.000911
3A6Kqp5Er1rns14VVvEkH8YDXAK' unnamed s	0.001738	0.001738
3CC3TUF1b4tyUG7GNZkMm3w5C unnamed s	0.000972	0.000972
3HPQs3vgD2RSx8EkgWfjeLaDQBF unnamed service		0.01
1LsQcrpHbFeWQdovz2Vs7hGqCta unnamed service	0.02	
3KGJW6zRekqazyKMX7WGzwrM7 unnamed service		0.01
1ATn1Sc2hiGemHmSCW2HJnQJj4' unnamed service	0.005	
37MghJLTZ Xpesa.io exchange	0.01	
1KHQhdH3GB8rDuQMuke8eXaQ3 unnamed service	0.035	
1Mi5KTCvo8E6CWwKctPSqvoSEgc unnamed service	0.025	
1D4gWiUzdizpsA7TxCyNQBM1JCZ unnamed service		0.005
12ZKAKZgF Antares.trade - InterCt scam	0.185	
33PgwwXzAawDB8XhUouQN4N5c unnamed s	0.019796	0.019796
15f9cZMxv FatBTC.com exchange	0.006192	0.006192
34Q11fgea Bitcoinz.io other	0.000937	0.070937
1FqLEWYMKpp71pWMxYzPdvAn6 unnamed service	0.03	
156k47MTHTsfEXUb8JM4K4b3nP unnamed s	0.053498	0.058498
18JMZyduBcAY1HzcTMkd9gVeUq' unnamed s	0.000819	0.000819
33TdfNrWt Nominex.io high risk exchange	0.11	
37Y9stfVioqhZu2QU8ZHCiuchFo4' unnamed service	0.035	
35CxrW6zgYwuXSjAfp78QKi8doyZ unnamed s	1.912133	1.987133
18zucdrZwBsNZXNC5MxkJT15Whl unnamed service	0.005	0.405
3MD2MuM3m25TBFb1kjMjN7kQ' unnamed s	0.125	0.125
1GkY5jm6Qyze3aTdQ9xwfiShPhvs unnamed s	0.000115	0.000115
17Vayoqdx Chamath.charity scam	0.052689	0.052689
18wBfiXMCjBFJeRG3PFzLMjynPQv unnamed s	0.009046	0.009046
1Kw5Sjoz1geC3deejjGhicBajC5Lxq unnamed service	0.01	
1A6x2cSUkeHJPUjHd8c2gQ35d5y' unnamed service		0.005
bc1qjryksn26xg9nwj277xrjdpmd2' unnamed s	0.001261	0.001261
bc1qqdqjethqk5z8tj862zlv2t75e2r unnamed s	0.014495	0.014495
3BFZt5kuWjXETZrUXBLvnz5TdAj8x unnamed service		0.005
39xZ2eEMb38C3XmykJVPwcUcQy unnamed s	0.009617	0.009617
18Ygft9AM FaucetHub.io hosted wal	0.001	0.001
3NLJ4XSxG73opUVEUFtcNRxEu2r' unnamed s	0.028788	0.063788
1qPwtQsVFi3Cjy9btR6Hxu5cGdktj unnamed service	0.025	
1ENmnkfFU7o2hhipBPBSzsQzToa' unnamed s	0.006608	0.006608
39dha2GLu Bitladon.com exchange	0.03	
1CNZtzXSEW6bUqb9q4GRZukBU7 unnamed s	0.003323	0.003323
3DU2s6QA trade.mn exchange	0.000271	0.000271
1JB7uHk3qw1Qhxf1DqW6GHPetC unnamed service	0.035	
18EoVvWbQu9sQPAmS4yUN2WJ unnamed service	0.16	
141qBgFW EuCanna shop darknet ma	0.00815	0.01315
15HTDcJot5A8PVLhnn9Eu8QRzQz unnamed s	0.002522	0.002522
1H6YiHSjkG9AmzmmQRbuyUNvF1 unnamed s	0.009999	0.009999

bc1qsmkl0mqau8zqscnvu3yzja3yx unnamed s	0.005644	0.005644	
18J8oNYjem7DbSsLvtuN4NNM1R\ unnamed s	0.0207	0.0207	
1FZSTcBcJdkNWQsa18Sc71BaA6xh unnamed s	0.00298	2.30798	
18WhedLC BitBazaar darknet ma	0.04395	0.06895	
16NCFv5bhG5qYW7wTMzvaJjkm\ unnamed s	0.012169	0.012169	
39dQjQYpVRpH59eUJGM85teGG\ unnamed s	0.050748	0.050748	
3C3wyZ1wzDH3ror1qaqe6ZmCM\ unnamed service		0.135	
367PqwMkucRjmwy9HXRmWRcG unnamed s	0.13861	0.14361	
137mEaUo IndependentReserve.c exchange		0.03	
15ZQnzRztw9ViUWSWRsWZNryx6 unnamed service		0.085	
3Lpoy53K6 Garantex.io high risk exchange		2.365	0.01
36EAqnTD\ Nexo.io other		1.525	0.09
16r3FLpxvdT9DF63JgpEmXdChFbT unnamed s	0.001294	0.001294	
3PNVF8Cr\ Oscar Market darknet ma	0.037893	0.052893	
14W6yxEWceVbLB2gfyTMKtn7S6i unnamed s	0.002173	0.002173	
3KeaqbtvqVKegVUt843ZHD6jKB11 unnamed service		0.005	
36dnwzqx4c4h44ykAb42jErcMsv8 unnamed s	0.022859	0.022859	
3HmJA7RMRGuZ9xC1HDLQ9XT7tc unnamed s	0.000269	0.000269	
13KDrw4dfZaWvoi9K2Lao1UDTLx\ unnamed s	0.00107	0.00107	
191MS7KXEJgAnojcTuJ8icE6kjTVsf unnamed s	0.020374	0.025374	
16wnuWtoqsZ6PSqugwyez1K58yv unnamed s	0.002062	1.822062	
1EmurJhDveid7EhotJJTtJ6RaFyP9z unnamed s	0.690781	0.750781	
15TSfuWQ8b3M29vBrBFVXJUxYbr unnamed s	0.50387	0.68887	
3HR1hQ53Laec8hYudhui3PwBy67 unnamed s	0.00036	0.00036	
1McdkAP2zFuuVrBM83nkvb1VPq\ unnamed service		0.005	
1HgAEBzU\ Reported as PedoHub 'child abuse	0.0054	0.0054	
3HfrSzhhegGzKdRpNgkLABKiMj3V\ unnamed s	0.00103	0.00103	
35qsCvSDnBYYT4wbKwTDjAEpA8t unnamed s	0.00461	0.00461	
18J4fdz6cxn41JpaqLRSZ5RTaczK6f unnamed service		0.005	
1JK29mX7PMLBgcyzkipjFATuvEQn. unnamed service		0.08	
1Hn2ybVKbY9ag6p1sKcXs3UmrXE unnamed s	0.00259	0.00259	
3NMMnhB Catex.io exchange	0.001107	0.001107	
32KVon8LE Blockchain.io exchange	0.000811	0.000811	
1yotjzTSv14SfuYJv5Lp\ victim 1yot unnamed service		0.21	
1HYXcoTjvXY99ebm5kPtkR4xui\ unnamed s	0.007252	0.007252	
bc1qcwx76rgf039u6xdtA2esvmrf9 unnamed service		0.005	
38N6Gks8\ StormGain.com exchange	0.006947	0.031947	
12owGNjbZodRWnyqWzkT98GPK\ unnamed s	0.003385	0.003385	
33KMUXqF Zipmex.com exchange	0.000131	0.000131	0.025
1LJ9hZzWr TeslaPortals.com scam	0.02	0.02	
1DddrCpMTbepvJUUL6Fj3VhDthn unnamed s	0.014404	0.014404	
1A45YNkq4UmZR8R13Sz4ufPGwD unnamed s	0.007586	0.007586	
3H86ixtY5nJp15VMRamCeBelFjB\ unnamed service			0.01
17MyHfvSc Games.Bitcoin.com gambling		0.005	
136gLDuSxeN7sUFwU8bsFHZR2Ct unnamed s	0.002066	0.002066	
1DFzYgfExcuxypVDX1B7njfL1Lx4jF unnamed service		0.035	
39A7KcdM BitLeague.com exchange	0.000598	0.010598	

37voWNe9qjyMXJCKuz6jCFUnz58' unnamed s	0.309827	0.369827	
12mmtry9g2r8c79ZsGwDwGKeyL' unnamed service		0.02	
34BvsSGbRDyrgHmYE5HayeZN2zC unnamed service		0.005	
32yFpAgSE EmpiresX.com scam		0.005	
1FHse1FWHqCiTwpcKVPKyQ9GwF unnamed service		0.47	
32rGnSNfp8BHgeauw\ Bitrefill unnamed service			0.04
15TCEmRShEqgrashzvUDhA33PGp unnamed service		0.04	
bc1qw5c52mc9hfsfra0d5huteejte unnamed s	0.001709	0.001709	
1Q9VoyyPJebxL9UnDSymetPSpyw unnamed s	0.01515	0.01515	
156o2isRqEVS3jCqRqHDTXx1Sso unnamed s	0.01102	0.01102	
36B7iZmKZ Bityard.com exchange	0.362621	0.367621	
1BVqUmgs CryptoGenesis.net scam	0.008192	0.008192	
1KLcVJm3KiGXDEHgXrVJMQMxBFi unnamed s	0.003657	0.003657	
343QtCndvmrthGtcF6NEukq35dfC unnamed service		0.005	
bc1qmjnx037t0rh7rwlalf7nxc55f unnamed s	0.001586	0.001586	
34PGryFxecSFU1NMZxDjKco8u6JA unnamed service		0.01	
37RLGC2SR533YimXEoB6xPXh2aV unnamed service		0.01	
3D3TkQ6S: Elude.in high risk exchange		0.01	
3ECzWyTkWgLryGPf8wdygM8RGjl unnamed s	0.002027	0.002027	
3MQPcNMSAnYBUbxmGdrJ6e16b unnamed s	0.003731	0.003731	
1HnPADti8JKxxc7Ng8VnqTVu6yvh unnamed s	0.002773	0.002773	
13K2quuzE LuckyFish.io gambling	0.059632	0.059632	
3QjVu6aYVtDm9sQrQHbkkcgdAgh unnamed s	0.01189	0.01189	
33f9wZshXRAdd9rMZLwZDqgiyTV unnamed service		0.03	
3A1e63Kor Bitrefill.com exchange	0.109559	0.264559	1.19
3GgFnPqrCKfv5yFSfxBeSSqzcqUM' unnamed s	0.002117	0.002117	
3BYzwtQPmKueon3kmT91WVrN8 unnamed service		0.005	
1GemEmW Gemini-Verify-Transac scam	0.06861	0.06861	
3GAc7Shcq Coinfield.com exchange		0.04	
3CTRXXCmiPRuVNE72wjtkhL15zZf unnamed s	0.004126	0.004126	
1LPw3onMWAd8CJDqDpKiz3qgs\ unnamed service		0.025	27.26
3MEVYLXxsnuayYpVHQE2pf4RdNS unnamed s	0.002286	0.002286	
15Vfbk8PTnM27BvTmDxoVockBv' unnamed s	0.009315	0.009315	
3J1Cz6p2wnTkBEoqQkuSMqw1Z3 unnamed service		0.005	0.035
1A8TY7dxL Discus Fish (F2Pool) mining pool			0.11
114Wp5pmR7wBhGZuaixBgeUxZV unnamed s	42.84636	45.72636	
33ns4GGpz AMFEIX.com scam		0.655	
3NFD7MpmJ122xGqegRcKoKto5Zl unnamed service		0.005	
17TquZTTHEjE9Y3Pqeu7tYaSdH6B unnamed service		0.785	
3PczVixDogf47DmEAmELn5zoj4Rf unnamed s	0.015484	0.015484	
16tSTAxH5K8FiMcXeiTNkE8gwRp unnamed service		0.015	
1C73949BFzz2EadHvXrUFUX74E1l unnamed s	0.000577	0.000577	
16gup43TvSHhqn6bFZnpnKJezON\ unnamed s	0.004982	0.004982	
1MTKLNMUy3pwtQ5yssViewsTGc unnamed s	0.001824	0.001824	
19x7eBrAgVRdj3E8YbQ51j3aUhvl unnamed s	0.002844	0.047844	
17eeEzVcS2LfZyjmz1qHn8DoFWtE unnamed service		0.01	
1PtNbx2tv8MBovyUdrJnckkgFKGF unnamed service		0.085	

14zDZEGULYzCc6vepZ5awSnZ9RW unnamed service	0.09	
1CtCSCvL4Y8PoSgMg1nujgxmiYkd unnamed s	0.005941	
16aZ1paoMw7RkPy4FdoqdyThnM unnamed s	0.006613	
1AoYRsMk; Vilkov.com high risk exchange	0.02	
15AUwwGeHrco3V1mBLFxH2SgBi unnamed service	0.01	
17EKhHipQjJ8prCMFV9NRCfa2Yng unnamed s	0.0105	
16VNNvh8j Luno.com exchange	21.5474	27.2524 0.055
1CmXNFivAXvLRT8Y2DLye9KG5C2 unnamed service	0.315	
3BkRY9CwwCSAp9r6tMPRv2nzZZt unnamed s	0.011795	
1MUGww5KWPv4ijtnVSgwigxLYCt unnamed s	0.096636	
bc1qezl6mwfr350jg3unrui6u4d45 unnamed service	0.005	
1JpZj7RqMdoAiAsQqqqWafG9YM unnamed s	0.021408	
bc1qhnzkzj2d2fvujrc4tl5c3tjenxc\ unnamed s	0.002435	0.017435 0.065
1AKDBpNVDdgvz4JdqdrWHpgGU1 unnamed s	0.00122	
1GS214v8V42G59p1BFcVWYwqW unnamed s	0.002502	0.202502
3P5S7fAEEm238QqSXYb3W9WyA' unnamed s	0.001	0.001
17GJY5exG EpicsTrade.com scam	0.015	
3PC3ZWZPxnP3QcLQ4XgmVE6aBS unnamed service	0.005	
35zk7m7fC MuchBetter.com merchant s	0.01723	0.55723 0.025
15VyEAT4; Bittrex.com exchange	197.9562	207.1862 0.985
19GBf7zTw7CxwtQq6M6vKmAqoi unnamed s	0.010204	0.010204
1Ld3rkwjQzPggrEz7ktDBMkBDogk unnamed s	0.022925	0.022925
1K75wviRC7YfH8d1X2wcE7UBAJX unnamed s	0.002062	0.132062
3HPxNhffR9CS7zqYb2WqT4h2Z4V unnamed service		0.095
3Fr99x1SL; VALR.com exchange	1.08411	2.05911
1XPTgDRhN8RFnznWCddobD9iKZ unnamed service		0.005
32RhsN5AZLfdZVQg4R7pmj8HTg1 unnamed s	0.083521	0.128521
3GnT32omrZi5DrF9Jk1Xa4N1NWK unnamed s	0.004437	0.004437
37SsJLAHKrhPFwcwWqNVU9LDW\ unnamed s	0.006573	0.011573
1EHYtKZh6tA9dsHFJEDVr5DK5QA' unnamed s	0.340047	1.225047
3QRL3yfeAxbfMrwa7nMBdv3SuT unnamed s	0.000461	0.000461
16N6X8XH7dgdYyu3JLuNdX5jUW unnamed s	0.023124	0.153124
15gNq98R; SimpleFX.com exchange	0.018147	0.148147
1Bnu8HLgg2FavyUkz82ETWPYCd5 unnamed service	0.015	
1K7WvCQuwbaSAsFMgSYnq6JnRC unnamed service	0.075	
3NKhYk4EaQ8GaR5Amy1YYQfFoT\ unnamed s	0.008109	0.008109
1AcCxTQT7YKHkENuDRvTTcrX5W\ unnamed s	0.001826	0.001826
1KcZqjt5vb Unknown - OTC relater exchange	0.05	204.93
1GPEbMQg67br3EQTsSgs7jk7ivCN unnamed service	0.26	
3CzWovvcncUkvkiHisr; N.Exchange unnamed service	0.7	
17QVX2ugVwYmBgMDCAJWh3g3i unnamed s	0.005935	0.005935
1FSNfNyfkXMGKCjXyYkVtzKHaLgC unnamed service	0.155	
3GpofzwwpGLAfXk86FLw3Mk2wu unnamed s	0.001681	0.001681
1DoRgnxshukgnj4jJTsXwMZzNcGC unnamed service	0.01	
bc1qzr5cxpx9mslh2l227z6nsxn2se unnamed s	0.006178	0.006178
3KCcjT1tyXaMzWW9Jfi8ur3oXztCr unnamed s	0.008414	0.008414
3K2L8i3rPiLA7mkjeLTwLPnxPzMJy unnamed service	0.005	

3Qv2BQ8wwJ44tHFfshDvZhGppEI unnamed s	0.000116	0.000116	
1GLFrSaPBWusZEJITav4YZMXS4JJ unnamed service		0.56	
1HwEvPfCPWaiQRHxP7HJ1SJzLnEr unnamed service		0.04	
1ErssAPJml Bixin.com exchange	0.000457	0.215457	0.17
3QBftkBUXV4UqQYs4XSDvxj9QFV unnamed s	0.00215	0.00715	
3A85PgRyeyT8cohfm26En46S2X unnamed service		0.005	
1ECTQbBRMLWCeV9He6rMqYa2c unnamed s	0.001433	0.001433	
1MMieEhfxUDJz2A2SieCLRLNSSjrc unnamed service		0.025	
167QN5vaa8ipNstCHbUmHKAPSN unnamed s	0.016637	0.016637	
3LQrqinngZFC7gb752KEVByXrcrLY unnamed s	0.252817	0.332817	
1M1PzW3hgGSMFnSQ8zqggGom unnamed service		0.035	2.73
12jS7KyGCF Phemex.com exchange	88.97622	95.87122	0.005
37GgwKz52fJGCNJVDpadeINSBZQc unnamed s	0.360013	0.385013	
3HM7MkB2LDggqQb3rmfq6kdb3 unnamed s	0.002486	0.002486	
1DQnH5T59iLbZYCWbjEo3dnBcFB unnamed s	5.248002	5.663002	
1KUivbG5DNgRMnkVesUFEes6Lp unnamed s	0.010704	0.010704	
39VmhqzY6esFYg2gTS24ZCqk6caF unnamed s	0.0078	0.0078	
338zoeAKM KOT4X.corr IV2SER447 exchange	1.565039	1.900039	
1F1sfcDMY OKEX.com exchange	2.738236	8.128236	8.89
38wEjuX2F CyberBTC.com high risk exchange		0.015	
38dJZXrzdUxj3B6oZz9Y65Kb5JY2Q unnamed s	0.004445	0.004445	
1N7Hqv8r9k3Zxia5eecdK8HSqyoV unnamed s	0.001937	0.011937	
1DfyApKmrPVQna4DCN7fuPXYJQc unnamed service		0.125	
18uCCYLv1x29jNiTRLae8JhUv3Mn unnamed s	0.006028	0.006028	
3K2RULTa4R1YfyYKrkfzz12paTnojQ unnamed service			0.03
38ndGuobl Russian Market fraud shop	0.004011	0.029011	
1CsWMDCr4VomV58KNJmChUCYt unnamed service		0.19	
3GQ8vdPVAgZUdhkjrQN3W7bbaf unnamed s	0.00389	0.01389	
13oWDLug1qDcMBVNj9xraamyKC unnamed s	0.031527	0.056527	
3CGvCocj1bwn4cyNKCGcXANciWr unnamed service		0.325	
35sfd2mRaWhsahWK2H8D5RWi unnamed s	0.00259	0.00259	
18VyRm9JcrH7TsFuXoRNxv9yjhAh unnamed s	0.021152	0.021152	
3FDj5iFmre BitMart.com exchange	35.301	39.366	
1NZcfHxwRn2zB3GqYWmcWiDdN unnamed s	0.022783	0.022783	
3KyrbnMp8AFAhd77WTTEgaTyprl unnamed service		0.01	
3G199HSm3RCYUkNbWYbLh5vuB unnamed s	0.007993	0.042993	
1N8hkH9sFzjFqmcPajU4vPid3mnA unnamed service		0.02	
12gpJqMH: YoloDice.com gambling	0.088668	0.088668	
39HeCjNtw DueDEX.com exchange	1.877379	1.917379	
1DHdCoH5aPRBExx9PAhRkcCsLk2 unnamed s	0.000921	0.000921	
19xu4Mz2y7k4U9yFtiF9KzjPxyhCs unnamed s	0.011187	0.011187	
1GGw324L3US9fs3ygzofNJGEQGv unnamed s	0.01281	0.01281	
3FwUF2LLpvMNTfHkQLz9qR5XPM unnamed s	0.349252	0.349252	
1PUocbzS BTC.top mining pool			0.51
1BqeR8miYkuemBy4zvVuTUrocUp unnamed s	0.002	0.002	
1NiZXkUL1LxAfYnzaVoFFEwDNs7b unnamed service		0.02	
3GBgoGM8H79XdHz5WTbqx3Cd' unnamed s	0.001044	0.001044	

1JXJUDggT. Kinesis.money	exchange		0.885	0.005
3MyKdKdF. ECD.rs	exchange		0.01	
1EKAfxrhkE4XvkpunDvqkPUVZnv6	unnamed s	0.0097	0.0097	
3K1hv8snhaNHnqAdCxT6dxYnZNd	unnamed s	0.000589	0.000589	
3C3aVvf1r3XMUjLyCbFxrCL97V3C	unnamed service			0.035
1HFSnrYM! CoinHitFX.com	scam	1.03	1.03	
1ACBbDLU8k3FfqYQsv6wvkYFKZw	unnamed service		0.93	
1CUJN28NnbEW5YFHKdbvir7vPKV	unnamed s	0.005017	0.005017	
34g3AJEWNxFucqp6i9cR1665EHA	unnamed s	0.000313	0.000313	
bc1qr5ntct2qlnry23lqpf5ufpwmjvl	unnamed service		0.005	
3QsF5JFUp SBICrypto.com	mining pool			0.155
3CcWkaZr! AdBTC.top	scam	0.000256	0.000256	
1E6Ab5Z6r2Jpzfg8Q15wEpbUA7W	unnamed service		0.015	
3GuR5ADdcDKBujBqs6XxQzt9Kna	unnamed service		0.005	
1QLKsx31P Bitxmi.com	exchange	3.944427	4.134427	
1Dpo1vYNG5ogNbUnzaKPeLmBcq	unnamed s	0.001252	0.001252	
1DtGYmd2oZkXWMVd5fXYZM9an	unnamed s	0.004246	0.004246	
1HBCvTrEDWKQpH1eFMJDNBjsny	unnamed service		0.015	
3QU7bgvhVmrtURXf8o9wJG9NNi	unnamed s	0.031962	0.036962	
38SX5q8P6r9tv9QV9Q8ZJAAhrc5	unnamed s	0.246594	0.256594	
1FKoQrXCA Matrixport.com	exchange	0.307578	1.027578	2.86
1JInEXNQUBc9n13LQ23e4MJdAP	unnamed s	0.010057	0.010057	
1GcD38gv2 Bit2c.co.il	exchange	0.337	0.347	
1rAiRiHSeP B2C2.com	exchange		1.535	16.005
1EA25qXQa1PdwHn1UbD3GRiB12	unnamed service			0.005
3QyVG4F9! PaiWangLuo Poker Net	gambling	10.01785	21.23285	0.005
3KjXcYNwSShgAa1cujhxj1L9ooUA	unnamed service			0.115
3EV8YoNzw4toftxBXMPQTdjRwhX	unnamed s	0.014874	0.014874	
bc1qgwutlkkknqafaczn5z6h3xwp	unnamed s	0.000727	0.000727	
124TBXCGPsoN3hj64sdBrLARbVaf	unnamed service		0.005	
1Km9a96MoURctxc4SFyCNJ3UQE	unnamed service		0.005	
3BtPFNda5w4Q1vDyTCy8A19imhr	unnamed s	0.010636	0.010636	
3FhFgyY54vCd2yVdq3HhJhG6vGj4	unnamed s	0.000228	0.000228	
1PgYXBAV! OneHash.com	gambling	0.002	0.002	
3KC94Mz7! Babel.Finance	exchange			0.09
19YqztHms Poloniex.com	exchange	1.733115	4.258115	0.18
1HXM6F5jgxqvsewNtmJYAWpQP	unnamed s	0.001225	0.001225	
1Dij2xdpvaULXKGGahwRRzHsrrV	unnamed s	0.002623	0.002623	
13JXeCUXUGfCbJZLMujGvpjQ264F	unnamed s	0.024689	0.024689	
1QTD6LEJsFeiJP4GMFu1yXc2PCky	unnamed s	0.045922	0.045922	
1JP8FqoXt! Volabit.com	exchange		0.005	
3NroxAxbxusrKuPU1fZ9i6NdQ1vY	unnamed s	0.002152	0.002152	
1YZJKaAx2! Bitcoin Fog	mixing		0.025	0.01
1LGKzbo3ELBNXYm9FtriTCwF1ib5	unnamed service		0.005	
bc1q5j60pg Krypto-Cloud.com	scam	0.01094	0.01094	
3GXhLGUi66n5Zu5J7j7YJMUEx3Tj	unnamed s	0.0004	0.0004	
3Diihxge2RVXifj21v8wwXwVuNKA	unnamed service		0.005	

3CnURQLS; Hoo.com	exchange	0.487686	0.552686	0.06
1N1Q32Yzjz9nYKqyLvKYg8RMJ2Yr	unnamed service		0.04	
12Pk4ydwUzU9pNt6wRNMyLno4f	unnamed s	0.000879	0.000879	
1DFvmCDKH1Bz9VTHHLipej4fdr	unnamed s	0.012067	0.012067	
3HzkcMDJ; BitcoinWell.com	atm		0.015	
13c5DJqRKVknCTSBhj5mSvzhb1z7.	unnamed service		0.12	
bc1q258gyz60rmj3v938rxzvcxzyf;	unnamed s	0.010433	0.010433	
1C1bm3m; KuCoin.com	exchange	431.0302	480.3702	0.265
1G2AuvKmS69pNZrSQgxyTd4Twzz	unnamed service		0.495	
1EdfCps6bp7kmGioRiNKPUqjhnvo	unnamed service		0.01	
38496c2vvm7UdejvcV3DeAdGJQv	unnamed s	1.02696	1.06696	
13nW8kHj; BinaryInvestmentHub.	scam	7.533073	11.50807	0.045
32SbrM6NqRwJd9bgCuLAvgYnUjZ	unnamed service		0.04	
3CSeY9MFi Switchchain.c	Switchchain exchange		13.57	0.01
3MAPVBdDfx54gWLZ26rePDGU5E	unnamed s	0.001041	0.001041	
1HZiYJDPgZ4Bk5ZVcv7PRu8m85b;	unnamed s	0.082024	0.082024	
1AdpiV6eGWufAuaBnWFDvrohKz;	unnamed s	0.019991	0.019991	
14fbppPiY7YPsN5u3ex9zuAS6x5X;	unnamed s	0.0153	0.0153	
1EfMwsWzt87xEBhRfgVV7WyUps;	unnamed s	0.043052	0.063052	
1MPnKoiCDghhNQpeJ1XE3ZtSvjbt	unnamed s	0.249117	7.194117	
3Pt24temU5X3vN1cArj55yfp3Mg;	unnamed s	0.000714	0.000714	
3NiDnFsEC BitcoinofAmerica.org	atm		0.01	
14VZsej9BfUHXhZEEzcwpzbqg2;	unnamed s	0.003958	0.003958	
37AkMQ4dVm274VYZQsDDHAcn;	unnamed s	0.001898	0.001898	
1CyBvKhQ; Bypass Shop	fraud shop	0.012365	0.097365	
12wcKJanU2Q4Fjv7ALRGv9QTHH;	unnamed s	0.001707	0.001707	
1K9va4P9YKg3rnSgCiumPf9oF1no	unnamed service		0.085	
1H3k6z1rAR3Shrs4N3ijjk2YSNNBv	unnamed s	0.001137	0.256137	
1HkhH85o; Deribit.com	exchange	54.9192	57.2942	10.615
bc1q0r7k8fp6cvpskgafmesmwq8	unnamed s	0.0285	0.0285	
1K7kAKkzCqeE8HoAKbHNjqjegXn;	unnamed s	0.0066	0.0066	
1FPhFmGr5KSZZr61WLpKxfsMP7T	unnamed s	0.5129	0.5129	
32z2vQuZLQ47tdTubaxrAaZoBxpK	unnamed s	0.010904	0.010904	
3NVxnbLdf Mercuryo.io	exchange		0.01	
1FTY4ujgHatRe3NCcCTnhuiRCySSL	unnamed service		0.005	
17u5MD7yGwsoPvxPxX8wrJBzQ;	unnamed s	0.001076	0.001076	
1A7hpJ9sFHKS6qDpFv88Cozdy24g	unnamed service		0.025	
14h9ATHxvdzQWG25Qj4WytakuE	unnamed s	0.006531	0.006531	
1BUgsQjrbl Currency.com	exchange		0.01	0.035
1FLpK8vFwPkXB5K91nR7DfBmZpk	unnamed service		0.135	
1Fd17q9W Binary.com	exchange	0.077382	0.202382	
3NRwvQvoX1smFbjGRMnZSeSe5	unnamed service			0.005
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3PDBdg2ql B4UTrades.com	exchange		0.055	
33eTmiky2dHTj4Xc6UGR8d19jovv	unnamed s	0.003263	0.208263	

35iAvyweVRXTBvruxsRQySiKY2FL5 unnamed s	0.00224	0.00224	
188Lac52BVasL7joKN5hgeHrH2ze unnamed s	0.019149	0.019149	
1JYjwkqHJs Coin.z.com - GMO Coir exchange		0.03	
3Hn4w8tpi Dacxi.com exchange		0.005	
1292Qx5Fc FortuneJack.com gambling	0.70004	0.86004	
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3KY7QVcJwD7yHbvFDhaC69GSuz5 unnamed s	0.000587	0.000587	
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157qk4VafyXNE8KhbDyYhLjTUX: unnamed service		0.005	
3KeEBsVrcPLhj1LLWemnqidBG2je unnamed s	0.256853	0.596853	0.01
1Q5M1Uqkax1W4ZNeZWkE3viGR unnamed service		0.02	
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1KaNzXWq GetBABB.com exchange	0.041068	0.041068	
1cj3QDzXN FlipperFX.org scam	0.116441	0.116441	
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3HTyL1B7J Try2check fraud shop		0.02	
3BNEUQFpRSovj134s7fbZpnChUfF unnamed s	0.021321	0.021321	
1JNc9hWLKRbLUXhgwd3jgLGaoG unnamed service		0.045	
39djaAdzEt My-CryptoUnit.com scam		0.045	
1AaG59B6unx7xKuNx4eqNKwQoX unnamed service		0.04	
3F6PbrKvmYtiTYbh5MHyhT14rmP unnamed s	0.001958	0.001958	
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17kb7c9nd BitcoinTrade.com.br exchange	0.0166	0.1016	
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1LjRMfFWI Binance.sg exchange	0.008832	0.008832	
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3GdgxtPml Trastra.com exchange	0.0005	0.0255	
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36hxrVdpTgsHzVHWu8MptMxMJx unnamed service		0.075	
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392JTYfQCA2Gpvr8zL1H35XRuHv unnamed s	0.00021	0.00021	
1AYvPyr72uoa8cMUesyKFr7GhbA unnamed s	0.002698	0.002698	
1NhwBVsH Arbistar.com scam		0.035	
3Qud2sYTaBERJkHYN9XppPP3Kgi unnamed s	0.000599	0.000599	
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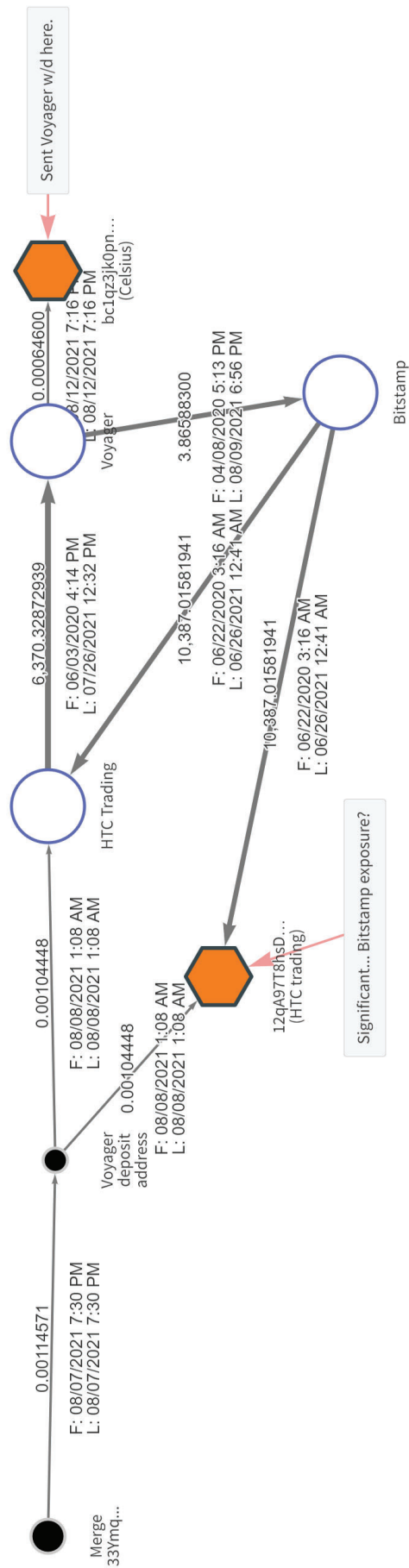
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1PtrhNyBq Little Minx child abuse	0.0006	0.0006	
1PoU7KVDaYrbWh89en2DxbutBF unnamed s	0.008479	0.008479	
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bc1qjvtqqnfmcnh496n447zntzrz6l unnamed s	0.003	0.003	
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1EFrrfTLM JoinMarket mixing			0.09
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3FkgeFX6MVo3AFq2aNFwinUqkTc unnamed s	0.001723	0.001723	
37T3chan8 Arbitly.io scam		0.01	
1FdT5waj9qu2UPMD9QxNVVF9uZ unnamed s	0.001836	0.001836	
12QdbHoAi8aJx7tAtrex8STDnzpLF unnamed s	22.06213	22.54713	0.12
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1Cm8ZkbYU3jFUNZf5uVoiw2fqcsC unnamed service		0.005	
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112Brjdn2 DragonEx.io exchange	0.019372	0.019372	
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1GZdEnJKC Watermine.io scam	0.292862	0.292862	
3KBicqUDtdwXtoEvgr1hs8ajpSm4l unnamed s	0.008482	0.008482	
19Tqsmho8SdjHxXVLP62FQ788uD unnamed service		0.105	
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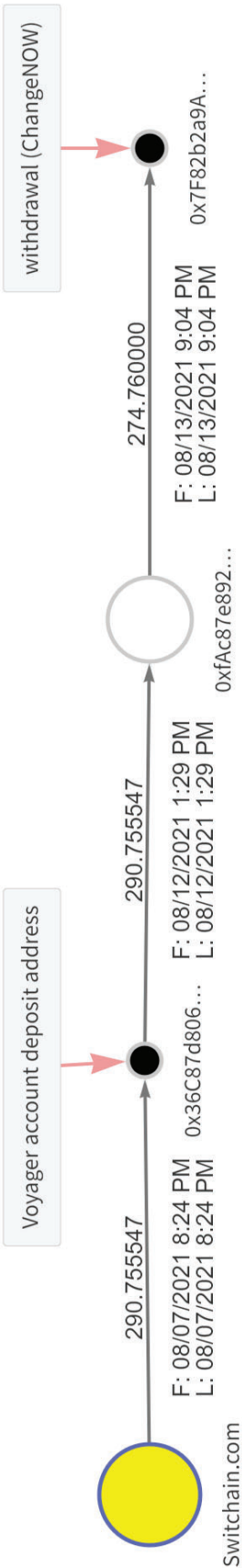
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1PtE7xFCui HolyTransaction.com	exchange	0.018809	
1GPCmg9w Netcoins.app	exchange	0.005	
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34CVdsUxdyXBSwq1JzeBxGsUSHQ\unnamed service		0.025	
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35nzqFHJtxZCxcRhRDKgKyEN9suzi\unnamed service			0.015
17vpsCC2ujap1pehw8wmFTd3ezk\unnamed s	0.00088	0.00088	
39zJs86396XMa9NjVvk3hpp9hPGQ\unnamed s	0.002697	0.002697	
1BJNYJLjgtl CoinCasso.com	exchange	0.061005	
1PtbV2vBV Unknown - Money Lau	high risk exchange	0.005	
3QMvXkHSQPFHmTTzhH6jm8djpj\unnamed s	0.077071	0.082071	
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3Mh7czC91wXsKWjZ1BzmkkQWz\unnamed s	0.000624	0.000624	
152AS3XLC ShapeShift.com	exchange	0.032629	0.005
35jpBJLHkUnvgqhLJDirjtitrdD7EHk\unnamed s	0.164089	0.269089	
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386w6Ry2aXcN9LSrnD6FrbkhVvM\unnamed s	0.885992	0.905992	
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3HdYbN63TaRPydWoB7jNNzZLX2l\unnamed s	0.362723	0.517723	
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1Lm49p1YSiY5iztVyV5cNNYA4Qgjj\unnamed s	0.008691	0.008691	
37MkKKwv ChivoWallet.com	exchange	0.07329	
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14iRBXLdrEQBRrenpFKhfqPQ6NPC\unnamed s	0.015651	0.015651	
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39LyQR887n5yvvvg5Gk3HDufQhjk\unnamed s	0.006819	0.006819	
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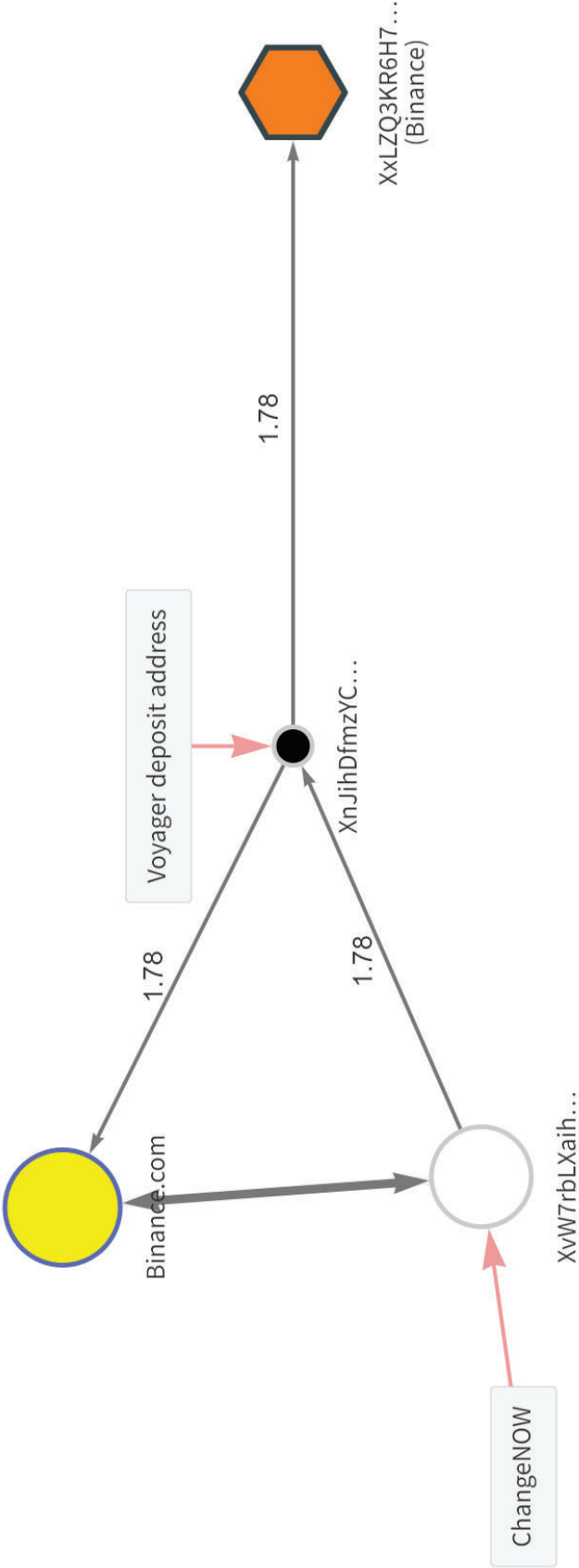
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	fees	14.2078		21.6378
	unspent			1396.935
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	untraced	0	0	7.899906 0
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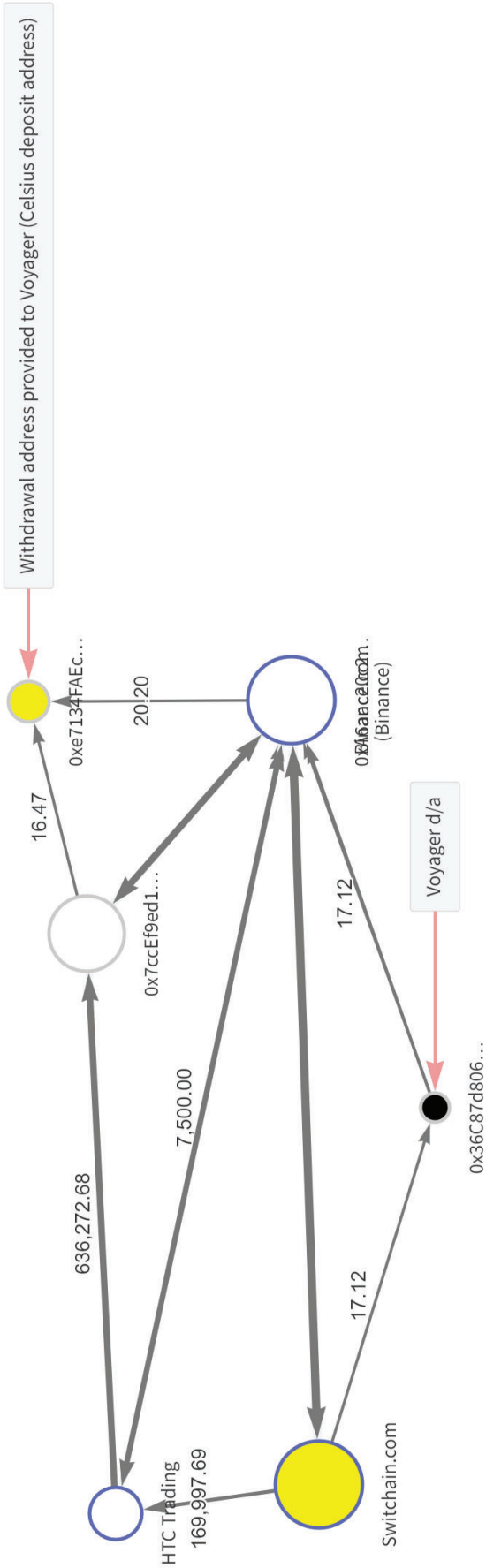
Exhibit D

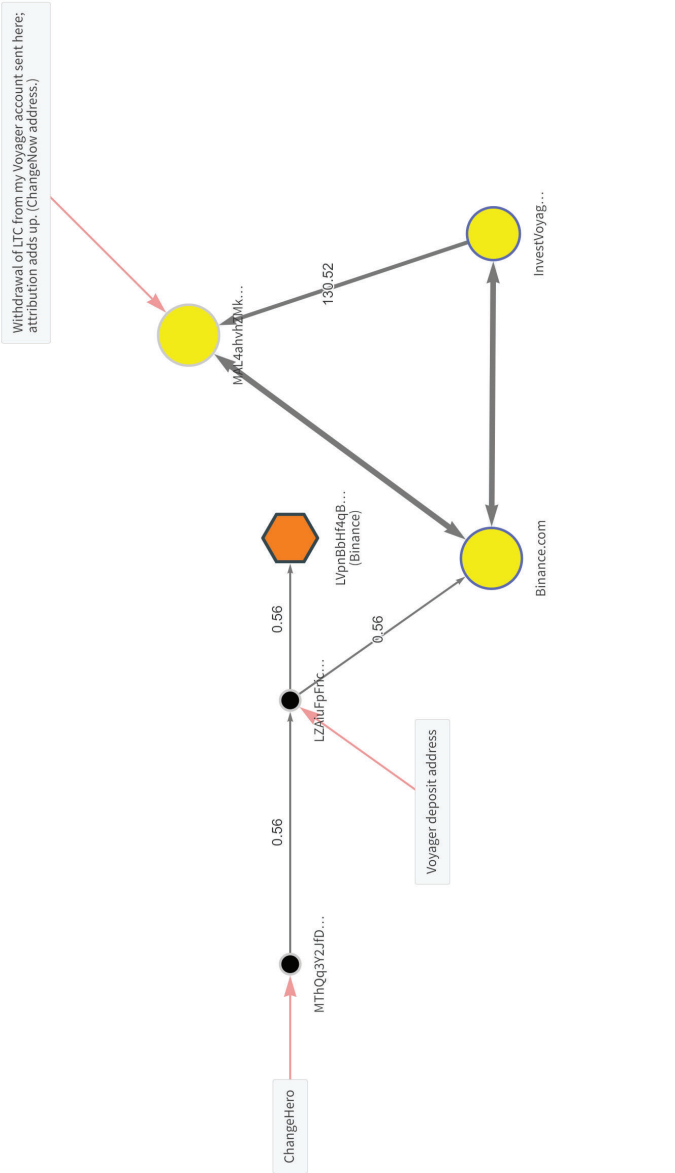
(CipherBlade Preliminary Expert Report)

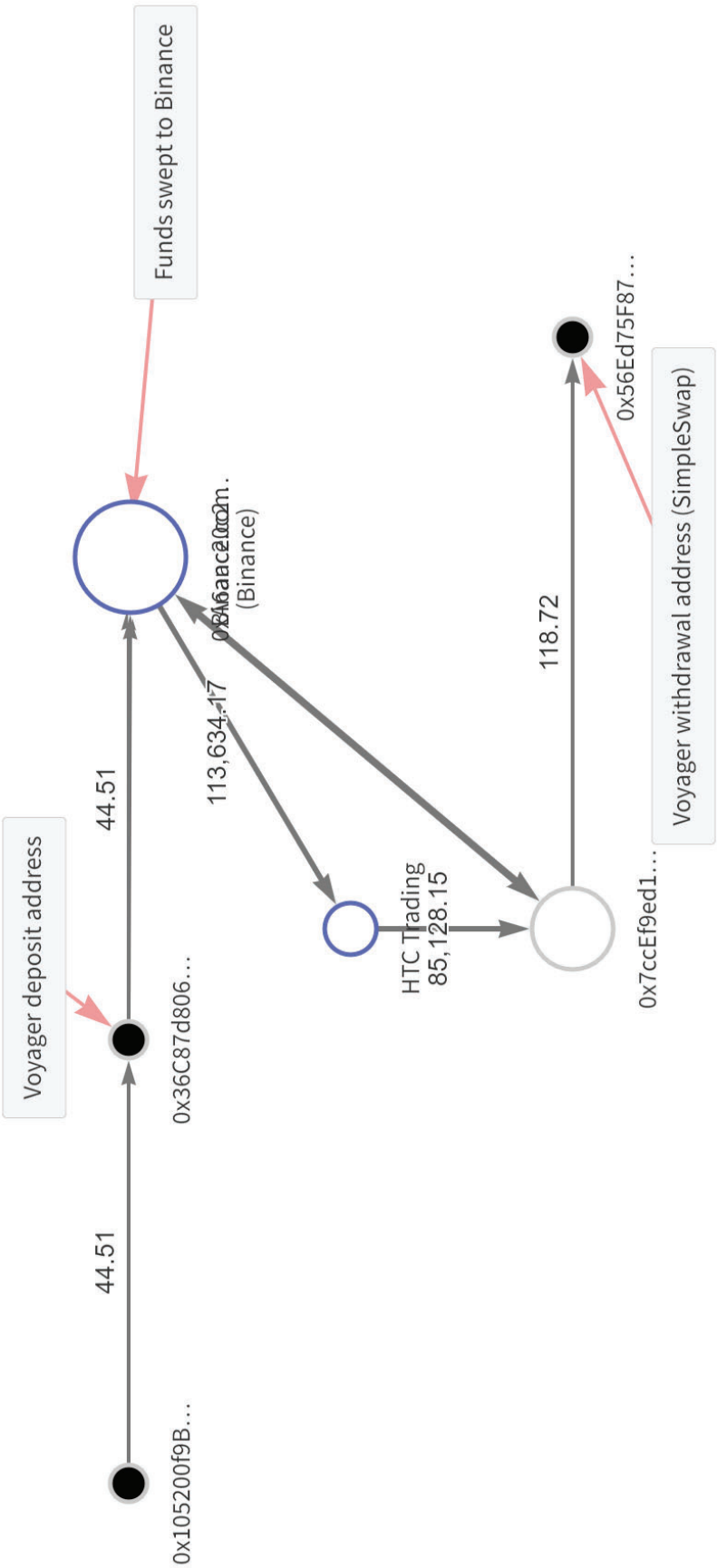


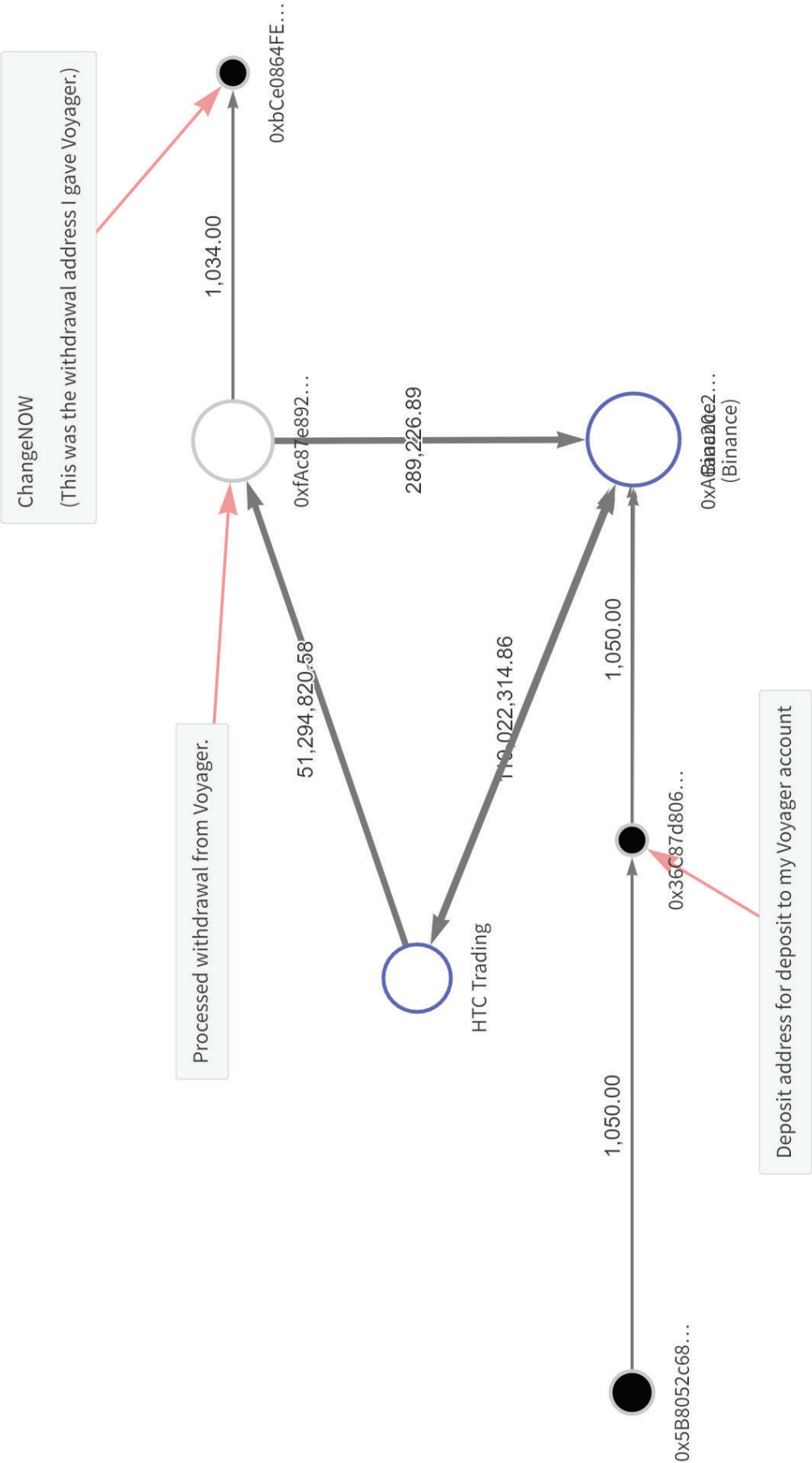


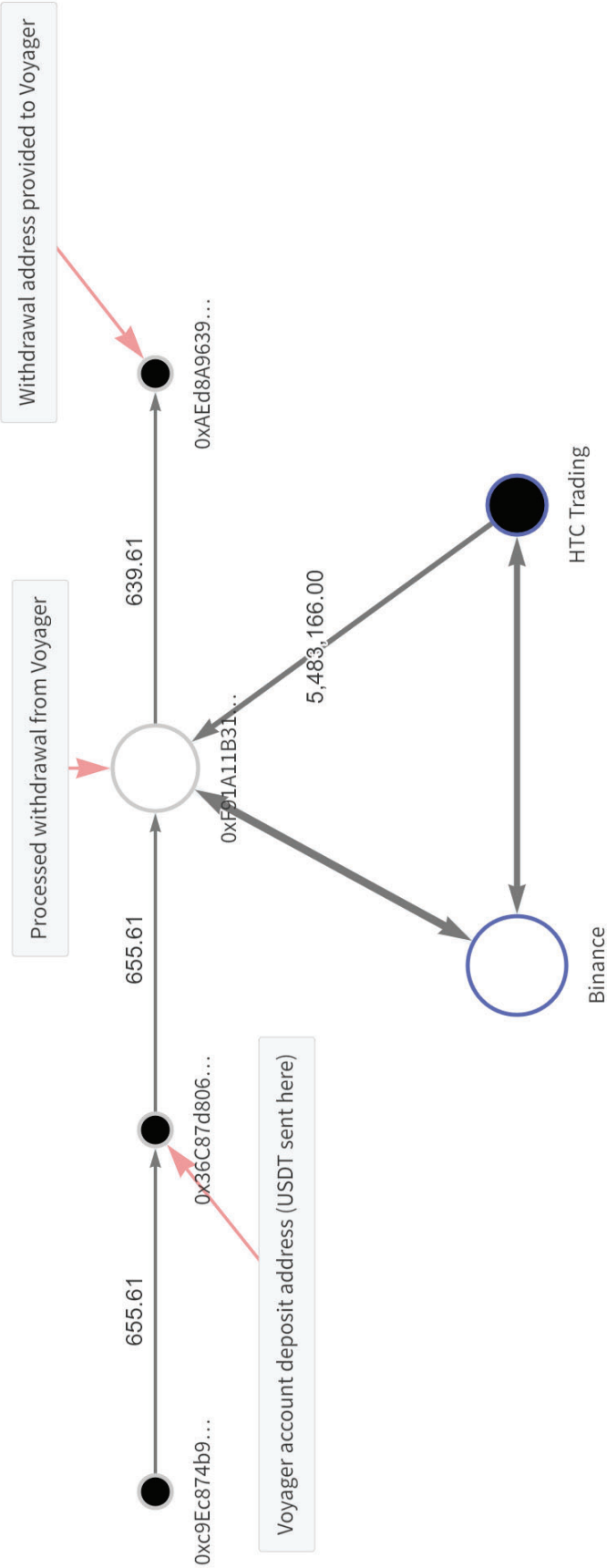


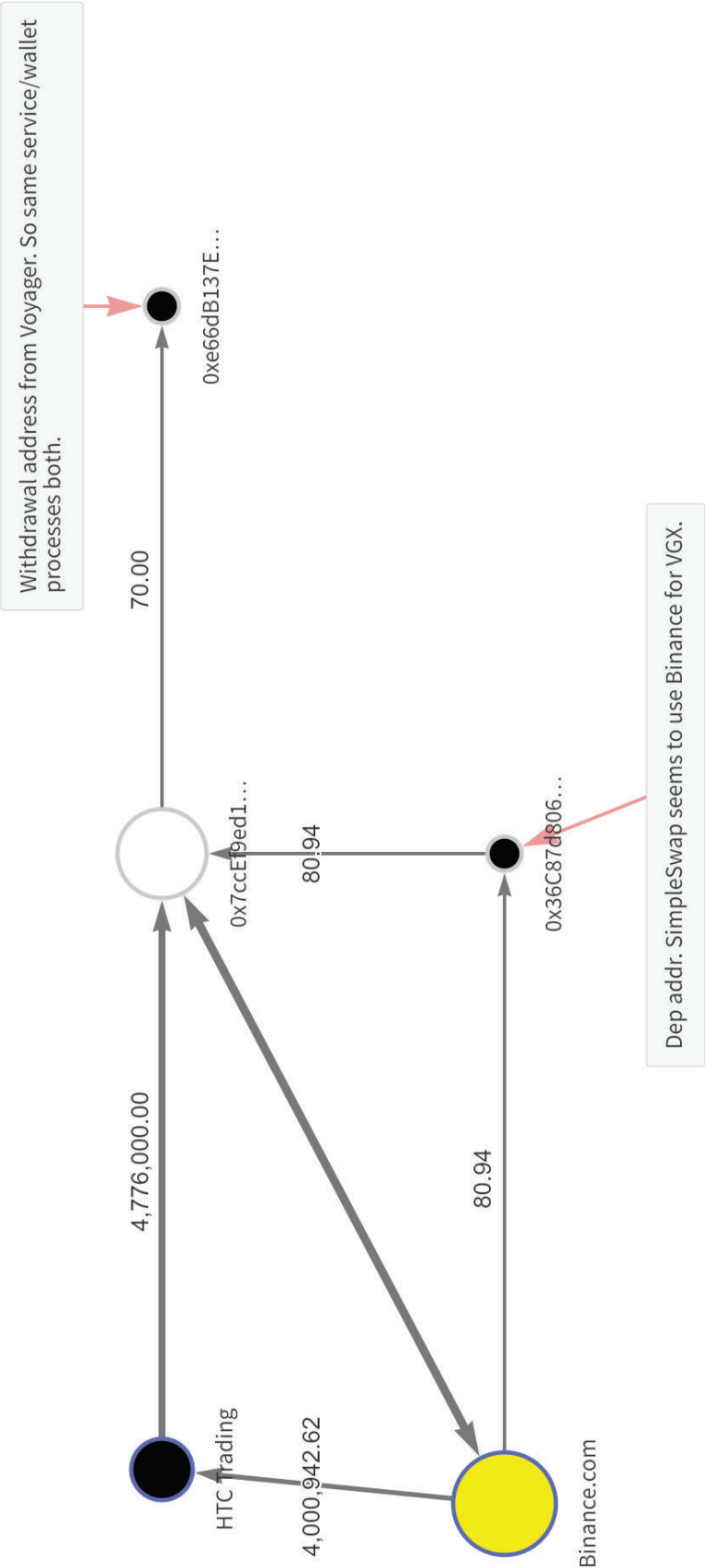












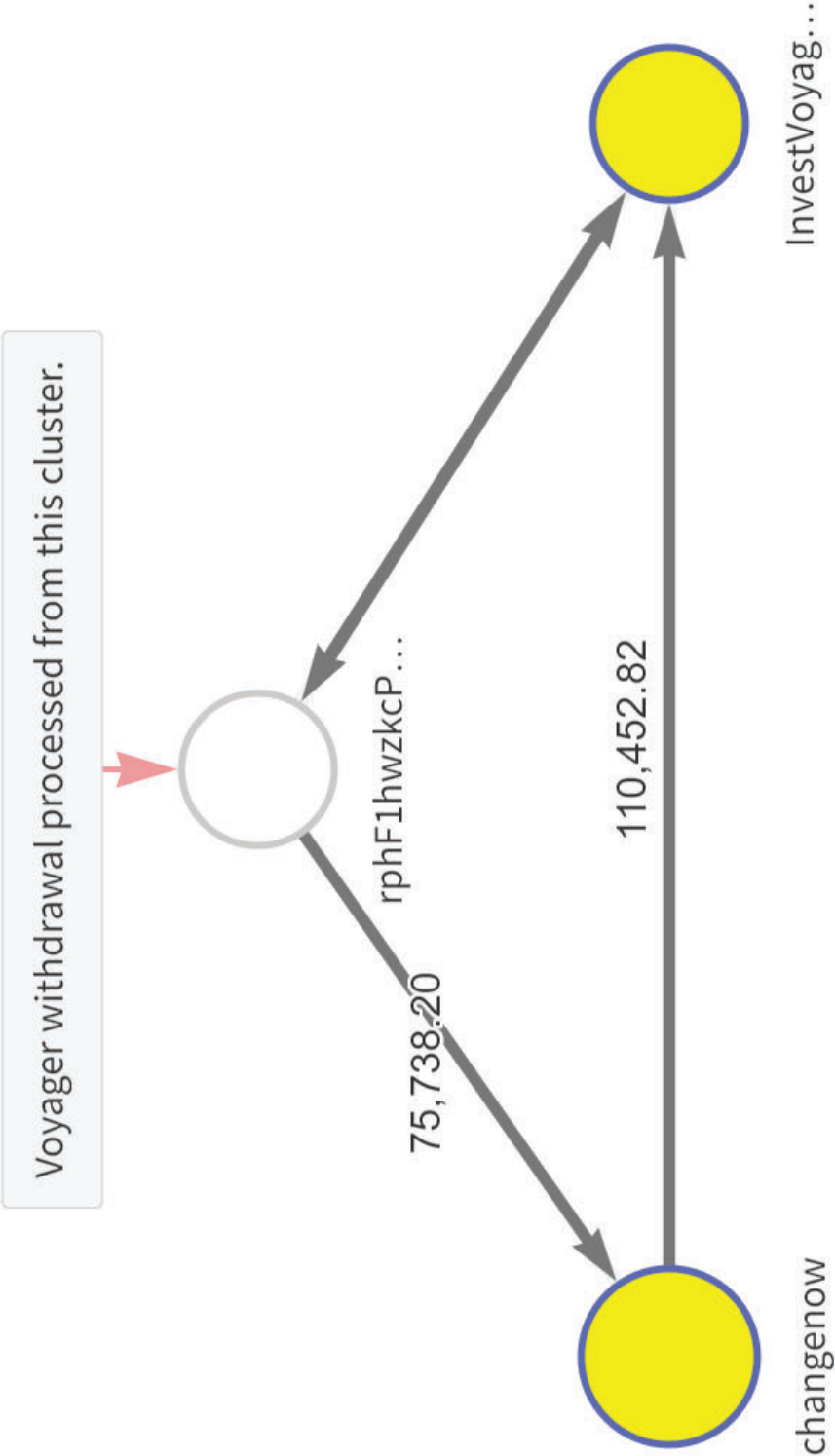


Exhibit E

(CipherBlade Preliminary Expert Report)

Link:

<https://youtu.be/zF5nHhLhpaM>

Exhibit F

(CipherBlade Preliminary Expert Report)

Captured	Trading Pair	Voyager	Coinbase	Binance	FTX	Kraken	Uniswap	Sushiswap	Remarks
PM EST	(Voyager),	\$31.62					\$32.05		
PM EST	(Voyager),	\$41.71						\$44.29	
PM EST	ZRX/USD	\$7.56	\$7.65						
PM EST	ZRX/USD	\$7.58			\$7.05				small arbitrage opportunity for a more volatile
PM EST	MANA/USD	\$22.55				\$22.87			
PM EST	BTC/USD	\$102.45	\$103.05						
PM EST	BTC/USD	\$102.37			\$102.47				0.002212 BTC
PM EST	BTC/USD	\$102.33		\$102.87					0.002212 BTC
PM EST	LTC/USD	\$101.06	\$101.72						0.002212 BTC
PM EST	LTC/USD	\$101.16		\$101.73					0.58524 LTC
PM EST	LTC/USD	\$101.07				\$101.86			0.58524 LTC
PM EST	LINK/USD	\$99.90	\$100.73						3.77 LINK
PM EST	LINK/USD	\$100.24				\$100.42			3.77 LINK
PM EST	LINK/USD	\$100.17					\$101.75		3.77 LINK
PM EST	LINK/USD	\$100.24		\$100.79					3.77 LINK

Captured	Cryptocurrency	Amount	Voyager	Coinbase	Binance	FTX	Kraken	Uniswap	Sushiswap	Remarks
PM EST	BTC	\$100	0.002139	0.00214953						
PM EST	BTC	\$10,000	0.00213589	0.002145						
PM EST	BTC	\$1,000	0.021355				0.02147056			
PM EST	ETH	\$10,000	3.147620	3.1688357						
PM EST	ETH	\$5,000	1.5751			1.585				
PM EST	ETH	\$20,000	6.29402				6.339			
PM EST	DOGE	\$500	1541.8	1567.7						
PM EST	DOGE	\$50,000	154228			158121				
PM EST	DOGE	\$100,000	307503				315410			
PM EST	DOGE	\$25,000	77065		77830					Utilized USDC for the Binance pair.
PM EST	ADA	\$1,000	420.2		423.4					Utilized USDC for the Binance pair.
PM EST	LINK	\$9,001	331.04		332.69					Utilized USDC for the Binance pair.
PM EST	LINK	\$500,000	18422.99	18493.53						
PM EST	LINK	\$123,456	4569.06					4561.92		Utilized USDC for the Uniswap pair.